

Christopher J. Anderson
 SkyDoc, LLC, 2603 Kingston Dr, Ames, Iowa, 50010
sky.doc.lla@gmail.com
 515-450-5853

Education

B.S.	St. Cloud State U.	1994	Meteorology
M.S.	Iowa State University	1997	Agricultural Meteorology
Ph.D.	Iowa State University	2005	Agricultural Meteorology (Statistics Graduate Minor)

Professional Experience

2013 – present, Owner and President, SkyDoc, LLC
 2011 – 2016, Research Assistant Professor, Department of Agronomy, Iowa State University
 2008-2011, Scientist Department of Agronomy, Iowa State University
 2005-2008, Lead Mesoscale Modeler, Global Systems Division, NOAA Earth Systems Laboratory
 2005, NARCCAP Technical Coordinator, Iowa State University
 2002-2004, Graduate Research Assistant, Iowa State University
 1997-2002, Research Assistant II, Iowa State University
 1994-1997, Graduate Research Assistant, Iowa State University

Background, Duties, and Expertise

Dr. Anderson performs research on climate risk management and severe weather events. His diverse background includes application of climate change projection data within decision-making and adaptation frameworks, analysis of agricultural and flood risks to climate change, development of yield forecasts, and analysis of wind, hail, and tornado reports.

Dr. Anderson has developed a diverse analytical tool kit that includes stochastic, climate, and weather simulation models as well as data models and analytics. He has 15 years of experience working with severe weather reports, weather radar, and weather satellite data.

Consultant Reports

FHWA Iowa Climate Adaptation and Resilience Project Report, 2015: "Iowa's Bridge and Highway Climate Change and Extreme Weather Vulnerability Assessment Pilot"

Urban Sustainability Directors Network, 2014: "Climate in the Heartland" Urban Sustainability Directors Network Available at http://usdn.org/uploads/cms/documents/climate_in_the_heartland_report.pdf

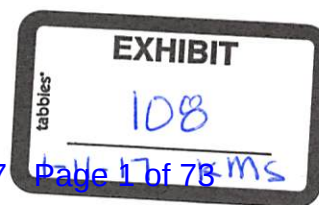
EPA Iowa Climate Change Adaptation and Resilience Report, 2011: Available at:
http://www.epa.gov/smartgrowth/pdf/iowa_climate_adaptation_report.pdf

Water Utility Climate Alliance, 2009: "Options for improving climate modeling to assist water utility planning for climate change." Available at: <http://www.wucaonline.org/html>. (accessed October 10, 2011)

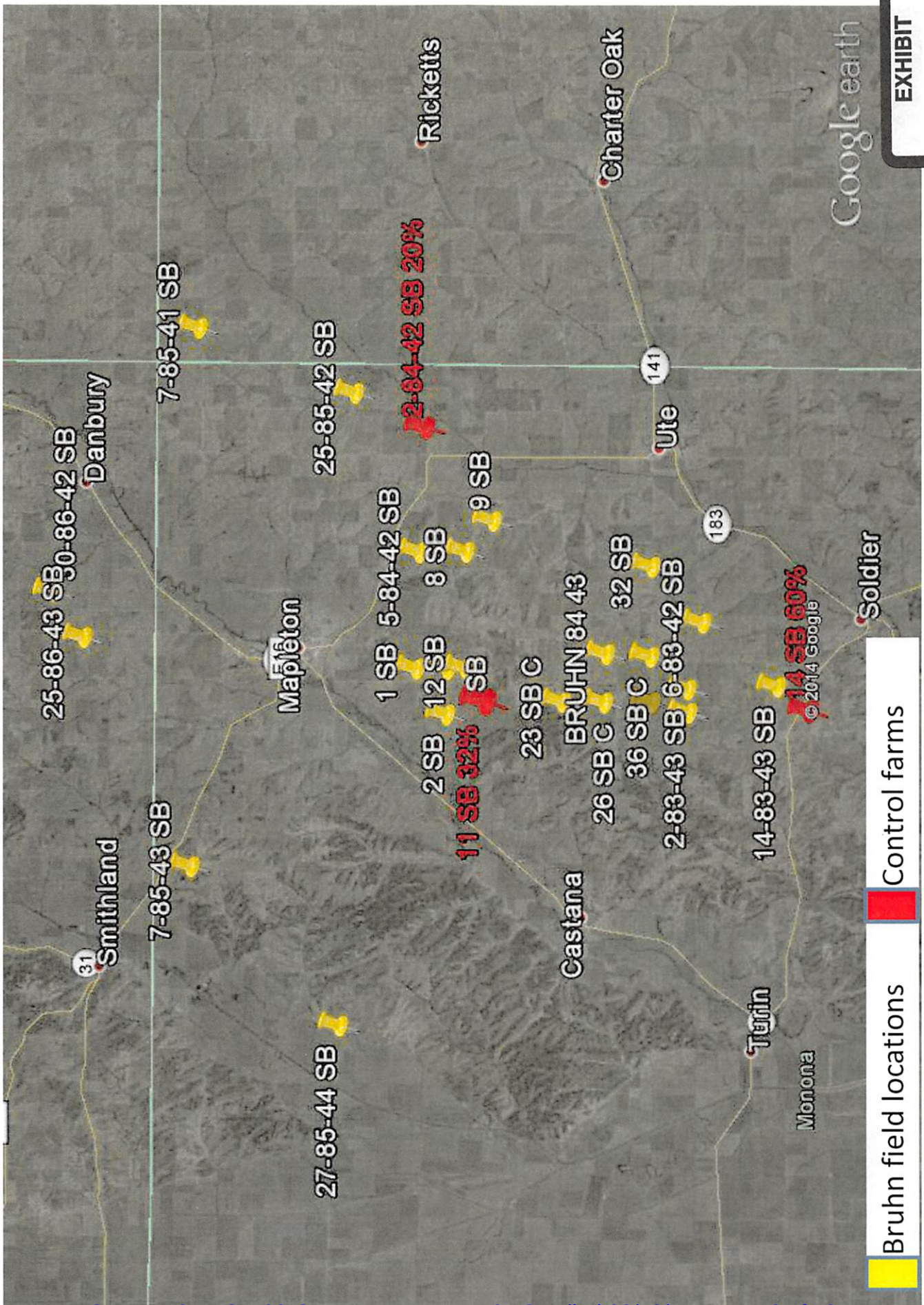
Peer-Reviewed Publications

Anderson, C. J., A. J. Peters, and E. S. Takle, 2016: Evaluation of Contiguous Daily Rainfall Areas in the North Central United States using a 61-yr Dataset of Gridded Precipitation. (under review in Journal of Hydrometeorology)

Anderson, C. J., and Peter M. Kyveryga. "Integrating Field and Climate Data for Nitrogen Risk Management." Climate Risk Management (2016).



- Anderson, C. J.,** B. A. Babcock, Y. Peng, P. W. Gassman, and T. D. Campbell., 2015: Placing bounds on extreme temperature response of maize. *Environmental Research Letters* 10, no. 12, 124001.
- Anderson, C. J.,** R. P. Anex, R. W. Arritt, B. K. Gelder, S. Khanal, D. E. Herzmann, and P. W. Gassman, 2013: Regional climate impacts of a biofuels policy projection, *Geophys. Res. Lett.*, 40, 1217–1222, doi:10.1002/grl.50179.
- Wildhaber, M.L., C.K. Wike, **C.J. Anderson**, K.J. Franz, E.H. Moran, and R. Dey. 2012. Modeling responses of large-river fish populations to global climate change through downscaling and incorporation of predictive uncertainty. *Proceedings of the 9th International Symposium on Ecohydraulics*, Vienna, Austria.
- Anderson, C. J., 2011:** Local adaptation to changing flood vulnerability in the Midwest. Chapter 15. In S. C. Pryor, ed., *Climate Change Impacts, Vulnerability, and Adaptation in the Midwest*. Indiana University Press.
- Anderson, C. J.,** R. W. Arritt, and J. S. Kain, 2007: Tests of a modified Kain-Fritsch scheme in a regional climate model, *J. Hydrometeor.*, 9, 1128-1140.
- Anderson, C. J.,** C.K. Wike, Q. Zhou, and J.A. Royle, 2007: Population Influences on Tornado Reports in the United States. *Wea. Forecasting*, 22, 571–579.
- Wike, C. K., and **C. J. Anderson**, 2003: Climatological analysis of tornado counts using a hierarchical bayesian spatio-temporal model. *Journal of Geophysical Research*, 108(D24), 9005, doi:10.1029/2002JD002806.
- Anderson, C. J.,** R. W. Arritt, 2001: Representation of summertime low-level jets in the central United States by the NCEP–NCAR reanalysis. *J. Climate*, 14, 234–247.
- Anderson, C. J.,** and R. W. Arritt, 2001: Mesoscale convective systems over the United States during the 1997-98 El Nino. *Monthly Weather Review*, 129, 2443-2457.
- Anderson, C. J.,** and R. W. Arritt, 1998: Mesoscale convective complexes and persistent elongated convective systems over the United States during 1992 and 1993. *Monthly Weather Review*, 126, 578-599.



EXHIBIT

109

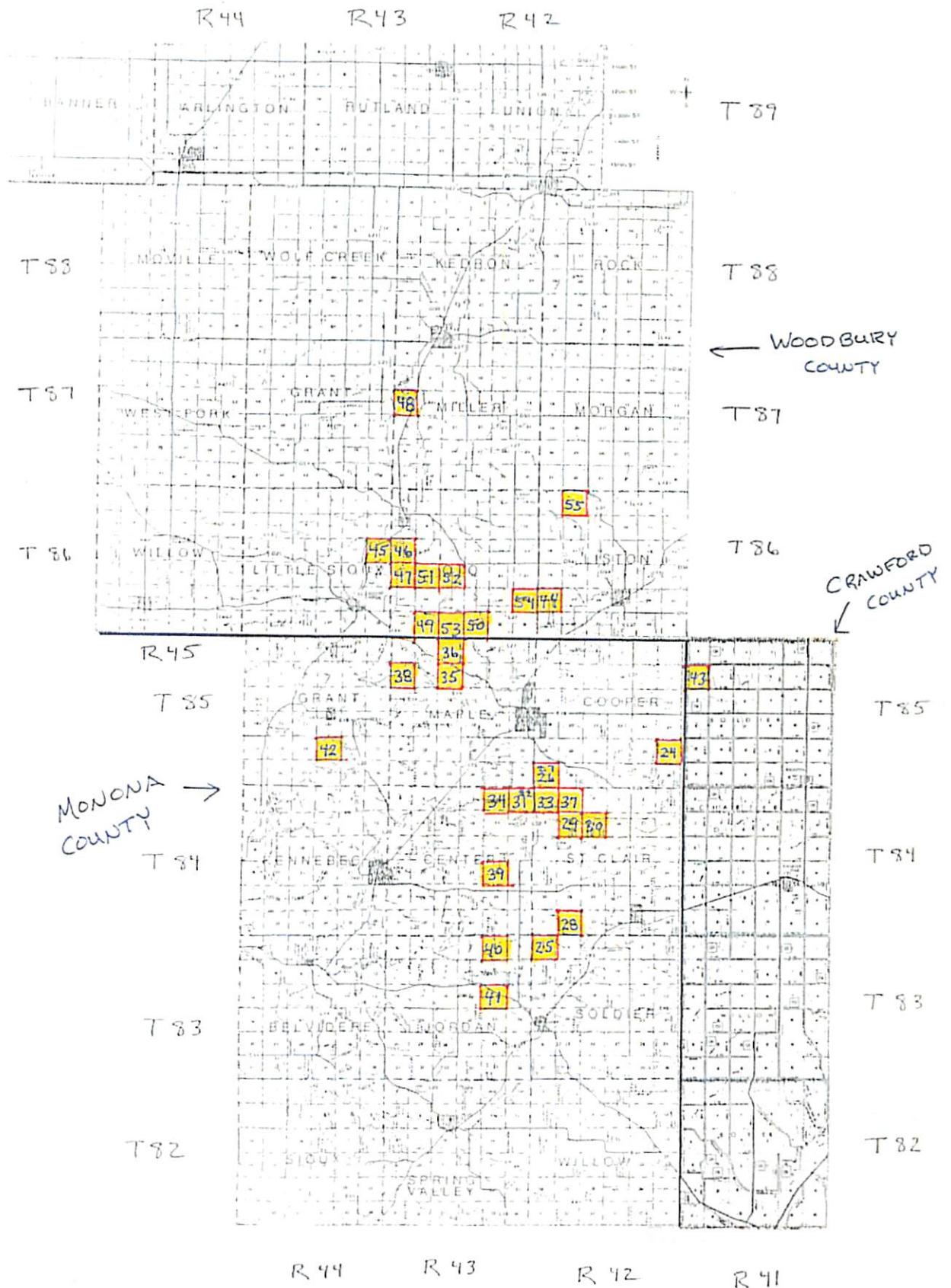
1-11-17 KMS

tabbles

tabbies

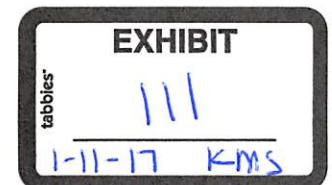
110

1-11-17 KMS



HAIL INDEX

- Hail Index (NHI/59) A product designed to locate storms which have the potential to produce hail. Hail potential is labeled as either probable (hollow green triangle) or positive (filled green triangle). Probable means the storm is probably producing hail and positive means the storm is producing hail.
- Several hail events were located in the Bruhn Farm region and are delineated with white, solid triangles.



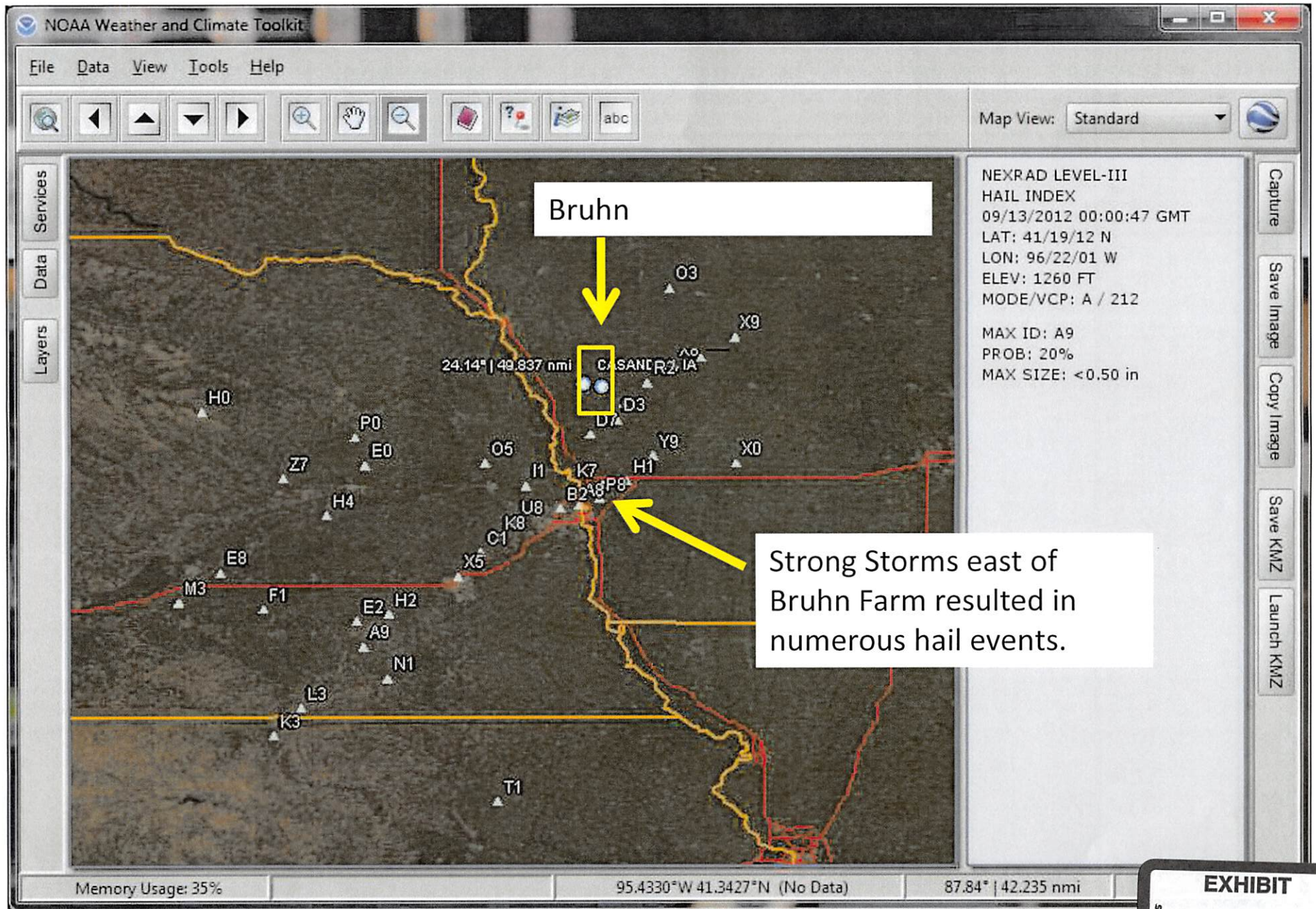
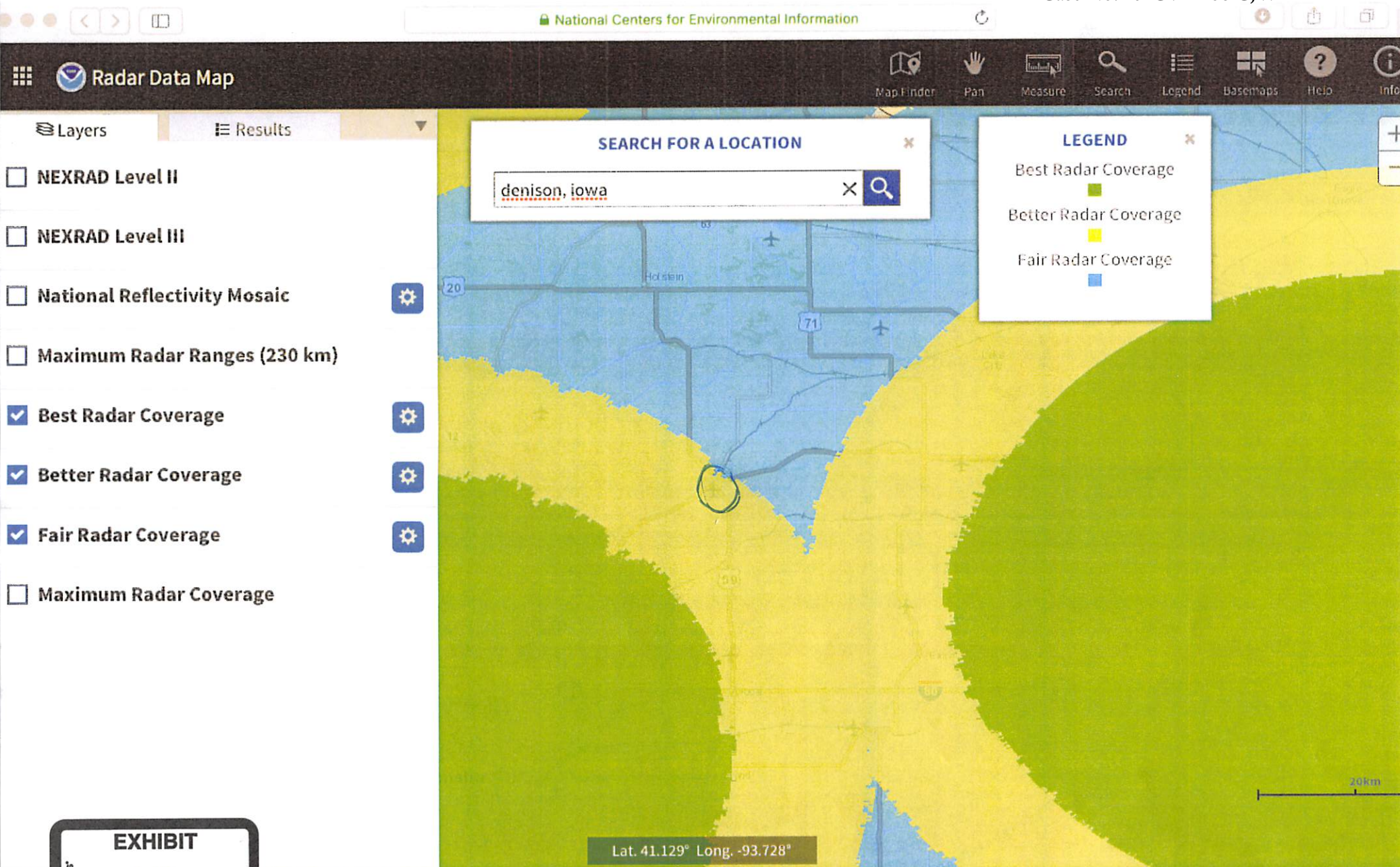


EXHIBIT
 112
 1-11-17 KMS



Yellow pins represent Bruhn Farm fields and Red pins represent three control farms with hail injury. SB= Soybeans C= Corn. Note the variability in storm intensity across the landscape.

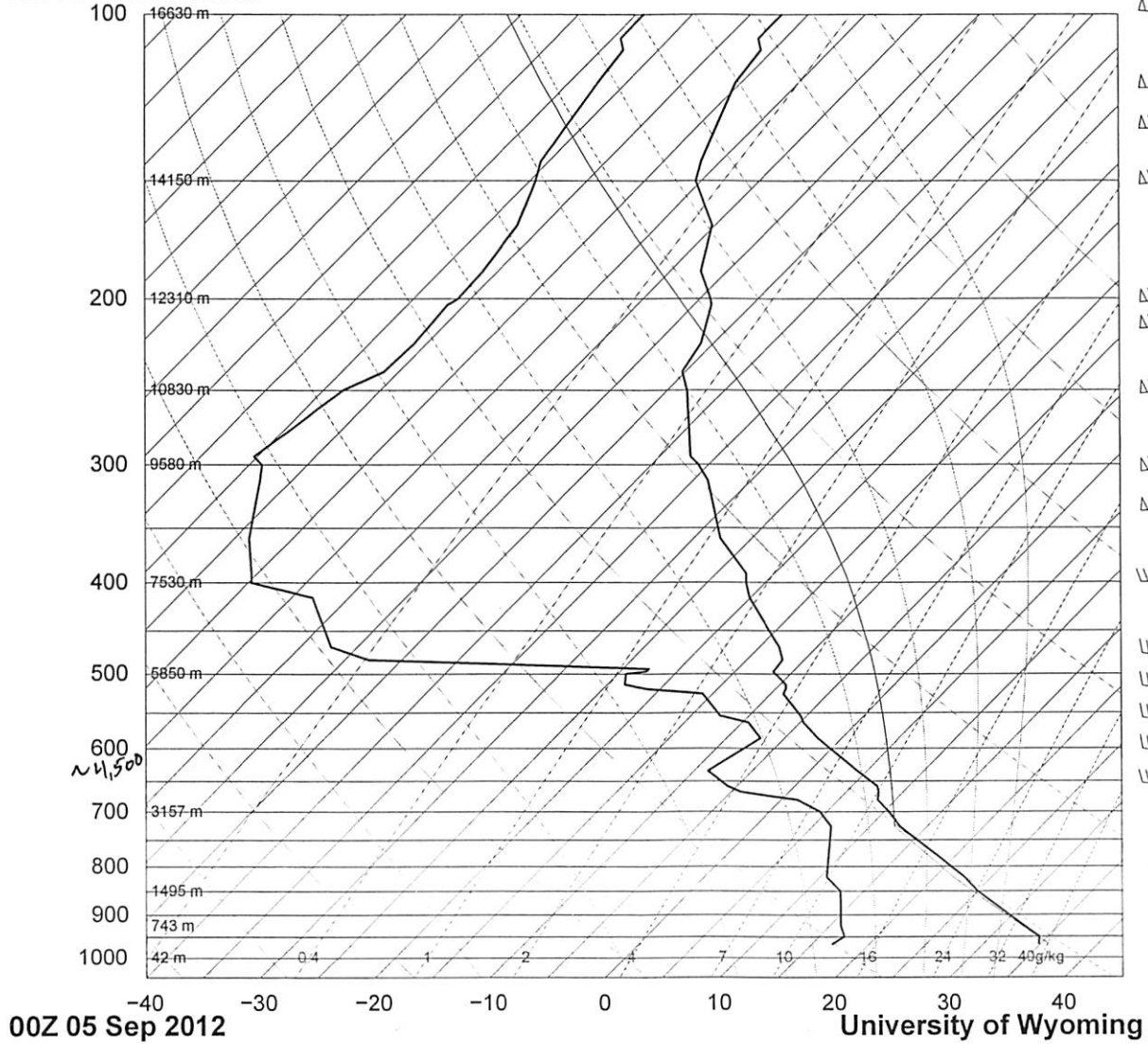


EXHIBIT

116

1-11-17 KMS

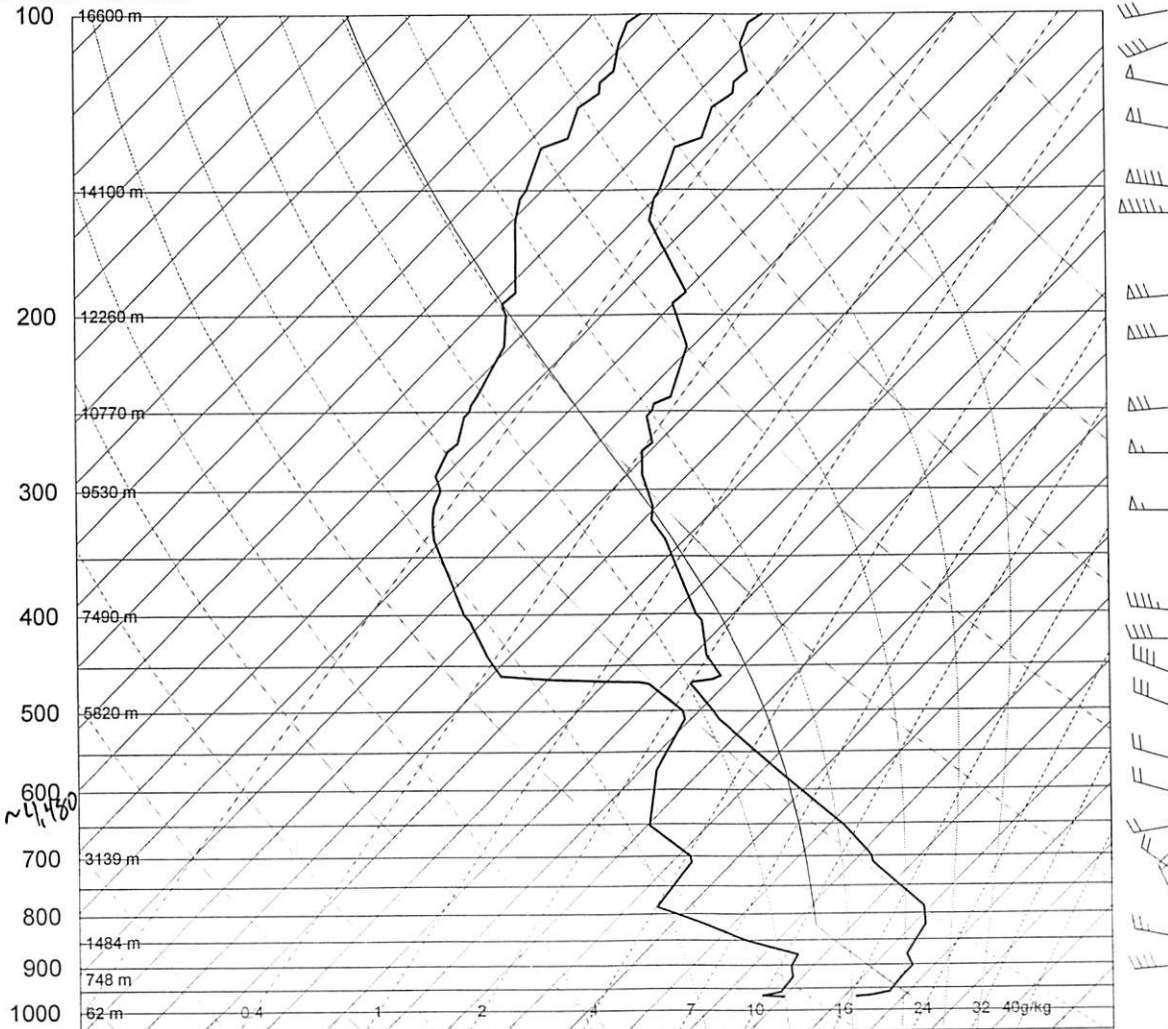
72558 OAX Omaha



SLAT 41.31
 SLON -96.36
 SELV 350.0
 SHOW -7.19
 LIFT -8.73
 LFTV -9.60
 SWET 602.1
 KINX 43.30
 CTOT 24.30
 VTOT 36.30
 TOTL 60.60
 CAPE 2230.
 CAPV 2413.
 CINS -56.0
 CINV -25.1
 EQLV 217.4
 EQTV 217.2
 LFCT 711.5
 LFCV 728.4
 BRCH 53.31
 BRCV 57.69
 LCLT 285.9
 LCLP 738.3
 MLTH 311.8
 MLMR 12.77
 THCK 5808.
 PWAT 36.00



72558 OAX Omaha

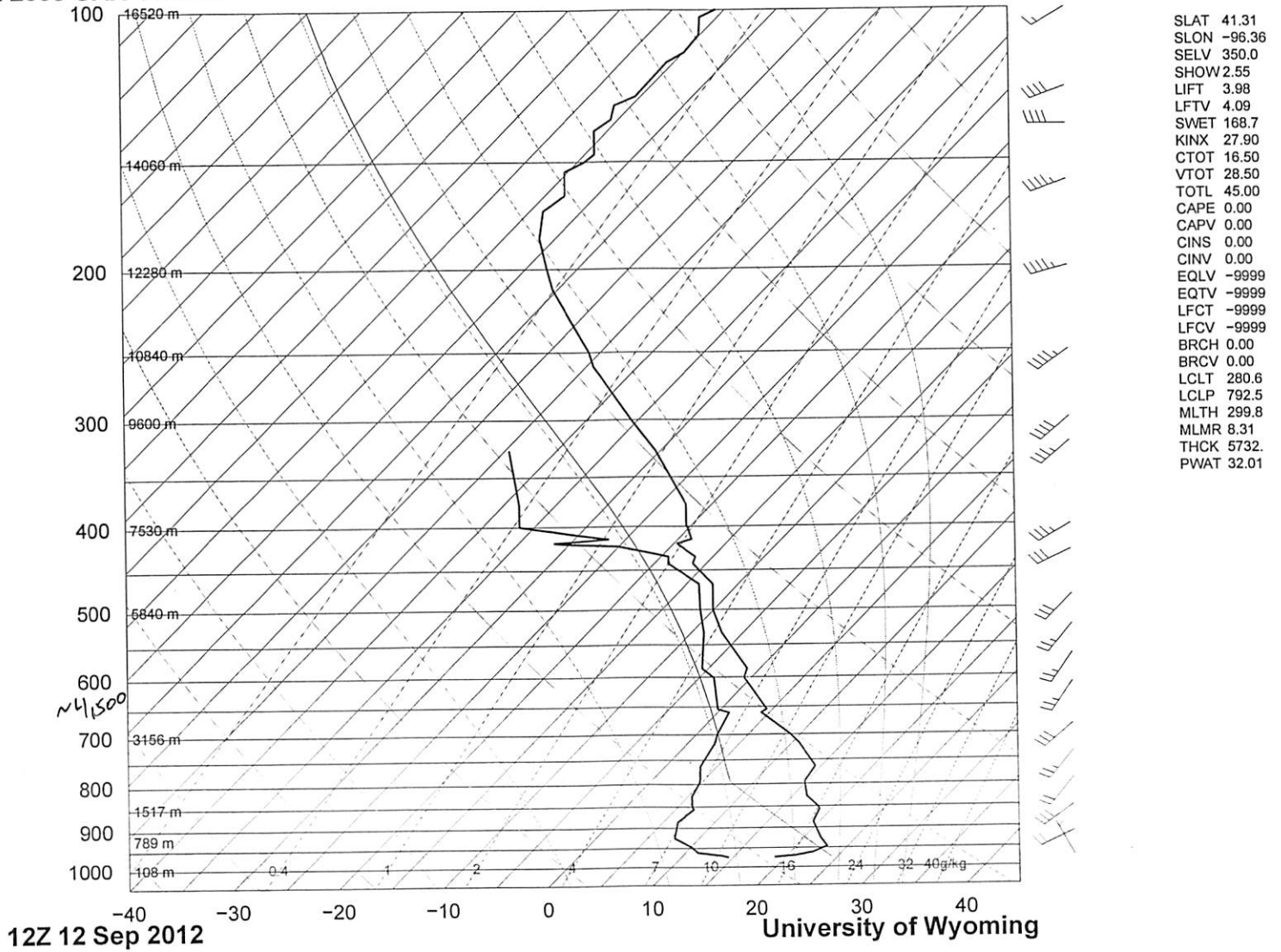


SLAT 41.31
 SLON -96.36
 SELV 350.0
 SHOW -3.63
 LIFT -4.35
 LFTV -4.61
 SWET 324.7
 KINX 27.70
 CTOT 21.30
 VTOT 35.30
 TOTL 56.60
 CAPE 386.1
 CAPV 433.4
 CINS -675.
 CINV -592.
 EQLV 314.4
 EQTV 313.5
 LFCT 584.9
 LFCV 594.6
 BRCH 24.65
 BRCV 27.66
 LCLT 285.2
 LCLP 824.4
 MLTH 301.4
 MLMR 10.90
 THCK 5758.
 PWAT 26.51

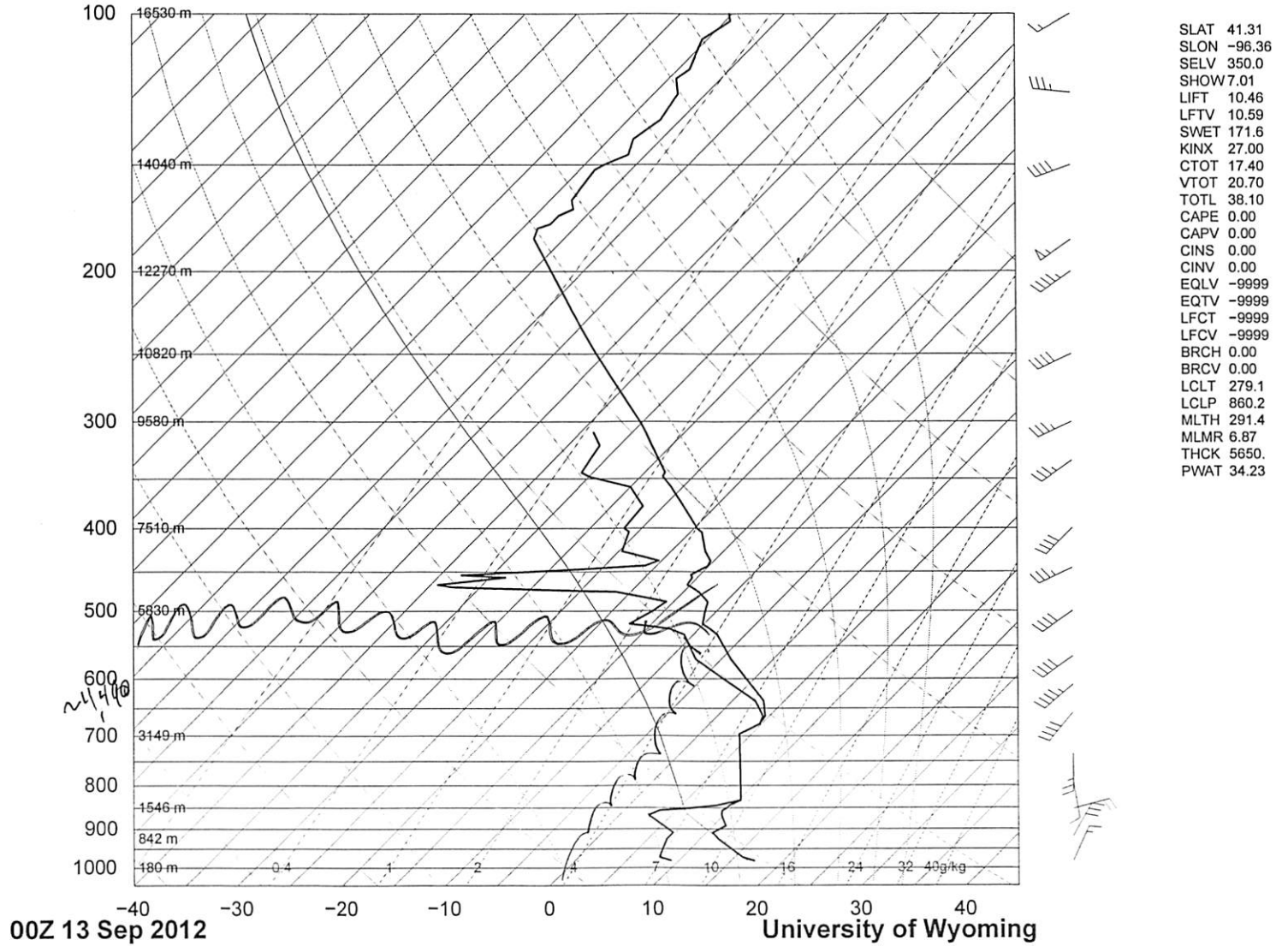
12Z 05 Sep 2012

University of Wyoming

72558 OAX Omaha



72558 OAX Omaha





NOAA Satellite and Information Service
National Environmental Satellite, Data, and Information Service (NESDIS)

**National Climatic
Data Center**
U.S. Department of Commerce



[DOC](#) > [NOAA](#) > [NESDIS](#) > [NCDC](#)

Search Field:

NOAA's Severe Weather Data Inventory

Introduction:

The Severe Weather Data Inventory (SWDI) is an integrated database of severe weather records for the United States. The records in SWDI come from a variety of sources in the NCDC archive. SWDI provides the ability to search through all of these data to find records covering a particular time period and geographic region, and to download the results of your search in a variety of formats. The formats currently supported are Shapefile (for GIS), KMZ (for Google Earth), CSV (comma-separated), and XML.

Data Access:

- **Search** - by address, city, zipcode, latitude and longitude.
- **Bulk Download** - CSV files available for efficient database download.
- **Web Services** - automate queries or integrate into your own application.

The current data layers in SWDI are:

- Filtered Storm Cells (Max Reflectivity ≥ 45 dBZ) from NEXRAD (Level-III Storm Structure Product) [?]
- All Storm Cells from NEXRAD (Level-III Storm Structure Product) [?]
- Filtered Hail Signatures (Max Size > 0 and Probability = 100%) from NEXRAD (Level-III Hail Product) [?]
- All Hail Signatures from NEXRAD (Level-III Hail Product) [?]
- Mesocyclone Signatures from NEXRAD (Level-III Meso Product) [?]
- Digital Mesocyclone Detection Algorithm from NEXRAD (Level-III MDA Product) [?]
- Tornado Signatures from NEXRAD (Level-III TVS Product) [?]
- Preliminary Local Storm Reports from the NOAA National Weather Service [?]
- Lightning Strikes from Vaisala NLDN [?]

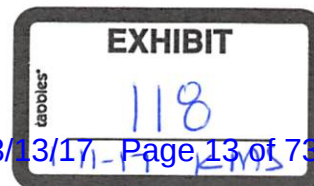
Disclaimer:

SWDI provides a uniform way to access data from a variety of sources, but it does not provide any additional quality control beyond the processing which took place when the data were archived. The data sources in SWDI will not provide complete severe weather coverage of a geographic region or time period, due to a number of factors (eg, reports for a location or time period not provided to NOAA). The absence of SWDI data for a particular location and time should not be interpreted as an indication that no severe weather occurred at that time and location. Furthermore, much of the data in SWDI is automatically derived from radar data and represents probable conditions for an event, rather than a confirmed occurrence.

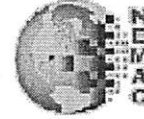
[Privacy Policy](#)

USA.gov

[Disclaimer](#)



SWDI is a joint project of NOAA's National Climatic Data Center, UNCA's National Environmental Modeling and Analysis Center, and the Renaissance Computing Institute.



For support and questions about SWDI, email swdi.ncdc@noaa.gov.



NOAA

NATIONAL CENTERS FOR ENVIRONMENTAL INFORMATION

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DOC > NOAA > NESDIS > NCEI

Search Field:

Search NCEI

NOAA's Weather and Climate Toolkit

Version Information

Quick Links

[Weather and Climate Toolkit Home](#)

Data Access:

- [Station](#)
- [Radar](#)
- [Satellite](#)
- [Model](#)
- [Severe Weather](#)

Stable release (Version 4.0.6)

NOAA Big Data Project, MRMS
Support, Point Subset, [more...](#)

[Older Versions](#) / [Change Log](#)

Toolkit

[Download/Installation](#)

[Find Data](#)

[Image Gallery](#)

[Java Requirements](#)

[Export Formats](#)

[Batch Processing](#)

[Credits](#)

[API / Source Code](#)

Documentation

[User Guide/Tutorials](#)

[FAQ](#)

[Presentations](#)

Download

A portable zip file containing an executable (Windows), app bundle (Mac) or shell script (Unix). This is not an installer, just download, unzip and double-click to run.



Windows [STABLE \(Version 4.0.6\)](#)



Mac OS/X [STABLE \(Version 4.0.6\)](#)



Unix/Linux [STABLE \(Version 4.0.6\)](#)

Installation Questions: [\(Win\)](#) / [\(Mac\)](#) / [\(Unix\)](#) / [\(Batch\)](#)

Register your email address with NOAA/NCEI to receive future information on new releases, bugs, issues and news. Questions? [Please contact our support staff.](#)

[Older Versions](#) / [New Features](#) / [FAQ](#) / [Tutorials](#)

Example Data

Drag and drop the following data links onto the Weather and Climate Toolkit:

- [U.S. Drought Monitor](#) (currently WCT version $\geq 4.0.2$ only)
- [ISCCP \(Satellite Cloud Climatology\) on THREDDS](#)
- [NOAA/NCEP HRRR CONUS 2.5km Aggregation from Unidata via OPeNDAP](#)
- [NEXRAD Level-3 Test Data](#)
- [NEXRAD Level-2 Test Data](#)

<https://www.ncdc.noaa.gov/wct/install.php>

Trial Ex. 113

Page 001

EXHIBIT

Page 1 of 2

- [NEXRAD Level-2 Super-Res Test Data](#)
- [GOES Satellite Area File Test Data](#)
- [Current TMIA \(Miami TDWR Radar\) Digital Hybrid Reflectivity](#)

Problems?

Please view the [requirements](#) page for more information on Java Web Start or the [Frequently Asked Questions \(FAQ\)](#) page for general questions.

Privacy Policy

Open Access to Data



Disclaimer

<http://www.ncdc.noaa.gov/wct/install.php>

Created by Steve.Ansari@noaa.gov

Downloaded Tuesday, 10-Jan-2017 22:45:18 EST

Last Updated Friday, 30-Dec-2016 14:42:39 EST by Steve.Ansari@noaa.gov

Please see the [NCEI Contact Page](#) if you have questions or comments.

Gmail - AIRS Order HAS010828499 Complete



Christopher Anderson <sky.doc.llc@gmail.com>

AIRS Order HAS010828499 Complete

NCEI AIRS <noreply@noaa.gov>
To: sky.doc.llc@gmail.com

Sun, Oct 9, 2016 at 12:57 PM



NOAA NATIONAL CENTERS FOR
ENVIRONMENTAL INFORMATION
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Order Complete

Your order has been processed and is ready for download.

If any part of your order has certifiable data, a link will be supplied that will help you with the certification process.

Order Details**Order #HAS010828499 (NEXRAD Level III)**

Order ID HAS010828499
Web Download <http://www1.ncdc.noaa.gov/pub/has/HAS010828499/>
FTP Download <ftp://ftp.ncdc.noaa.gov/pub/has/HAS010828499/>
Date Submitted 10/09/2016
Order Summary [View Summary](#)

For some orders, NCEI uses subdirectories to efficiently organize the data ordered from the NCEI Archive. Please refer to the Order Download Guide for more information, including scripts and examples.

You must pick up your data within 7 days of this notice.

Helpful Links

- [Help](#)
- [Contact Us](#)
- [CDR data documentation](#)

You are receiving this email because a data order was placed using this email address.

Copyright © 2016 National Centers for Environmental Information





Christopher Anderson <sky.doc.llc@gmail.com>

AIRS Order HAS010828500 Complete

NCEI AIRS <noreply@noaa.gov>
To: sky.doc.llc@gmail.com

Sun, Oct 9, 2016 at 12:57 PM



Order Complete

Your order has been processed and is ready for download.

If any part of your order has certifiable data, a link will be supplied that will help you with the certification process.

Order Details

Order #HAS010828500 (NEXRAD Level III)

Order ID	HAS010828500
Web Download	http://www1.ncdc.noaa.gov/pub/has/HAS010828500/
FTP Download	ftp://ftp.ncdc.noaa.gov/pub/has/HAS010828500/
Date Submitted	10/09/2016
Order Summary	View Summary

For some orders, NCEI uses subdirectories to efficiently organize the data ordered from the NCEI Archive. Please refer to the Order Download Guide for more information, including scripts and examples.

You must pick up your data within 7 days of this notice.

Helpful Links

- [Help](#)
- [Contact Us](#)
- [CDR data documentation](#)

You are receiving this email because a data order was placed using this email address.

Copyright © 2016 National Centers for Environmental Information



Christopher Anderson <sky.doc.llc@gmail.com>

AIRS Order HAS010828501 Complete

NCEI AIRS <noreply@noaa.gov>
To: sky.doc.llc@gmail.com

Sun, Oct 9, 2016 at 1:03 PM



Order Complete

Your order has been processed and is ready for download.

If any part of your order has certifiable data, a link will be supplied that will help you with the certification process.

Order Details

Order #HAS010828501 (NEXRAD Level III)

Order ID	HAS010828501
Web Download	http://www1.ncdc.noaa.gov/pub/has/HAS010828501/
FTP Download	ftp://ftp.ncdc.noaa.gov/pub/has/HAS010828501/
Date Submitted	10/09/2016
Order Summary	View Summary

For some orders, NCEI uses subdirectories to efficiently organize the data ordered from the NCEI Archive. Please refer to the Order Download Guide for more information, including scripts and examples.

You must pick up your data within 7 days of this notice.

Helpful Links

- [Help](#)
- [Contact Us](#)
- [CDR data documentation](#)

You are receiving this email because a data order was placed using this email address.

Copyright © 2016 National Centers for Environmental Information

WSR-88D Dual Polarization Deployment Progress

- Installation Status Map (160 sites)
- AWIPS Data Flow Listing

Note: 4 DoD OCONUS radars do not feed data to AWIPS, so the AWIPS status indicates a total of 156 radars, 4 less than the 160 radars being upgraded to Dual Polarization. Some Alaska WSR-88Ds will not show up on the AWIPS Dual Pol Data Flow list due to bandwidth issues in the Region.

I

As of June 24, 2013



Updated: 6/24/2013

Email corrections to Wayne.Martin@noaa.gov

Green indicates that the WSR-88D Dual Polarization product dissemination is activated.

Yellow indicates WSR-88D Dual Polarization upgrade done but waiting OPSnet upgrade.

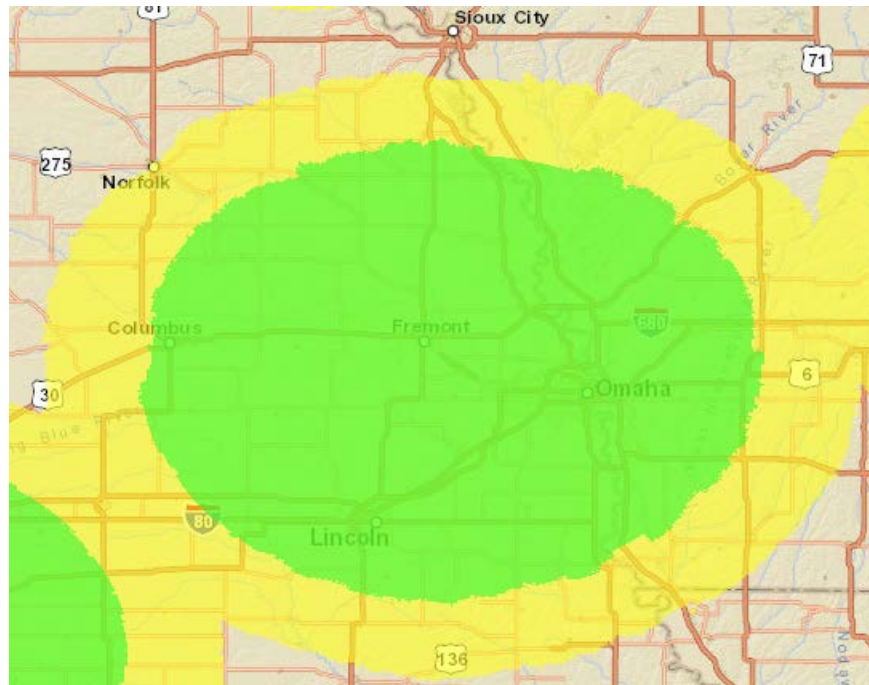
Note: 4 DoD OCONUS 88Ds do not connect to AWIPS. Total radars upgraded will be 160.

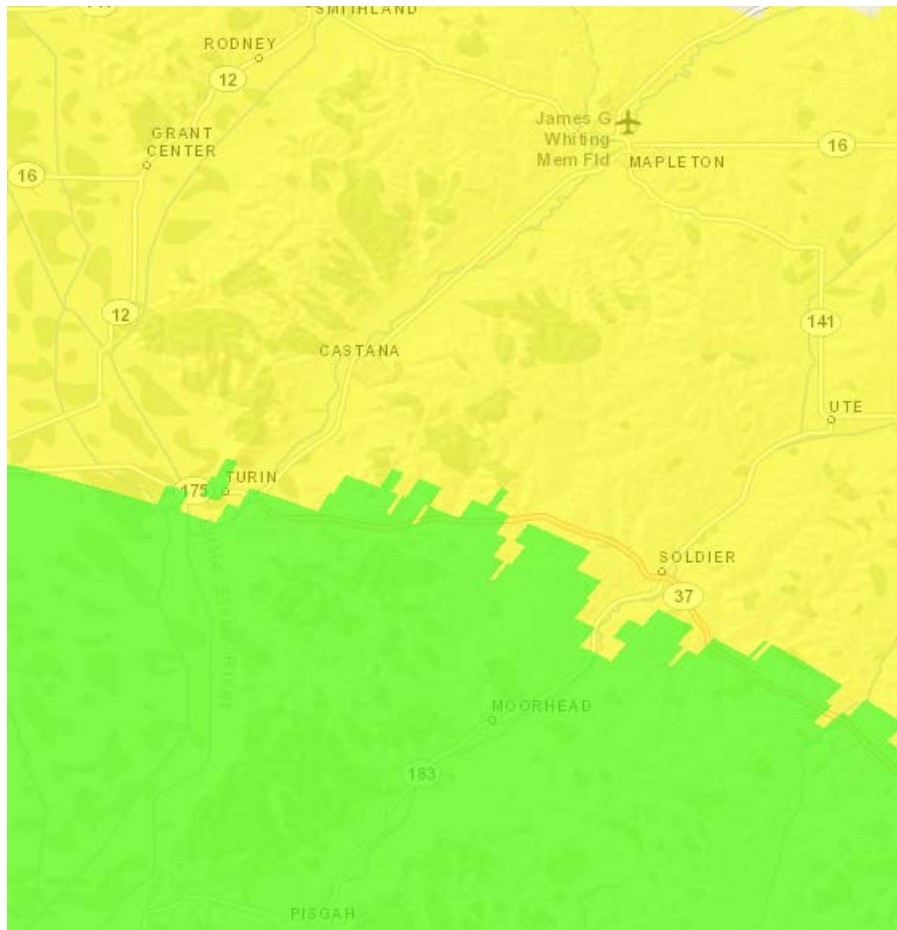
Dual Polarization Activated: 150

Dual Polarization Not Activated: 6

<u>Radar Name</u>	<u>Radar ID</u>	<u>Dual Polarization Activated</u>	<u>Host AWIPS Site ID</u>	<u>AWIPS Location</u>
Albuquerque, NM	KABX	7-May-12	ABQ	Albuquerque
Cannon AFB, NM	KFDX	26-Apr-12	ABQ	Albuquerque
Aberdeen, SD	KABR	7-Aug-12	ABR	Aberdeen
Bethel, AK	PABC	18-Sep-12	ACR	Alaska RFC
King Salmon, AK	PAKC	No	ACR	Alaska RFC
Anchorage/Kenai, AK	PAHG	No	AFC	Anchorage
Middleton Island, AK	PAIH	No	AFC	Anchorage
Nome, AK	PAEC	No	AFG	Fairbanks
Fairbanks/Pedro Dome, AK	PAPD	No	AFG	Fairbanks
Biorka Island/Sitka, AK	PACG	No	AJK	Juneau
Wakefield, VA	KAKQ	15-Feb-12	AKQ	Wakefield
Dover AFB, DE	KDOX	8-Feb-12	AKQ	Wakefield
Albany, NY	KENX	30-Apr-12	ALY	Albany
Amarillo, TX	KAMA	14-Nov-11	AMA	Amarillo
Gaylord, MI	KAPX	28-Nov-11	APX	Gaylord
La Crosse, WI	KARX	18-Apr-12	ARX	La Crosse
Binghamton, NY	KBGM	9-Apr-12	BGM	Binghamton
Bismarck, ND	KBIS	27-Jul-12	BIS	Bismarck
Minot AFB, ND	KMBX	20-Jul-12	BIS	Bismarck
Birmingham, AL	KBMX	13-Feb-12	BMX	Birmingham
Maxwell AFB, AL	KMXX	18-Feb-13	BMX	Birmingham
Boise, ID	KCBX	13-Sep-12	BOI	Boise
Denver, CO	KFTG	13-Sep-12	BOU	Boulder
Boston, MA	KBOX	11-Jan-12	BOX	Boston
Brownsville, TX	KBRO	21-Apr-13	BRO	Brownsville
Burlington, VT	KCXX	27-Jul-12	BTB	Burlington
Montague/Ft Drum, NY	KTYX	20-Jul-12	BTB	Burlington
Buffalo, NY	KBUF	2-Apr-12	BUF	Buffalo
Billings, MT	KBLX	8-Nov-11	BYZ	Billings
Columbia, SC	KCAE	7-May-12	CAE	Columbia
Caribou, ME	KCBW	7-Aug-12	CAR	Caribou
Charleston, SC	KCLX	25-Oct-12	CHS	Charleston, SC
Cleveland, OH	KCLE	8-Dec-11	CLE	Cleveland
Corpus Christi, TX	KCRP	8-Apr-13	CRP	Corpus Christi
State College, PA	KCCX	23-Mar-12	CTP	State College
Cheyenne, WY	KCYS	10-Oct-12	CYS	Cheyenne
Dodge City, KS	KDDC	18-Jan-12	DDC	Dodge City
Duluth, MN	KDLH	14-May-12	DLH	Duluth
Des Moines IA	KDMX	14-Sep-12	DMX	Des Moines
Detroit, MI	KDTX	27-Mar-13	DTX	Detroit
Quad Cities/Davenport, IA	KDVN	26-Mar-12	DVN	Davenport
Kansas City, MO	KEAX	10-Feb-12	EAX	Pleasant Hill
Eureka, CA	KBHX	24-May-12	EKA	Eureka
El Paso, TX	KEPZ	11-Jun-12	EPZ	El Paso

Morehead City, NC	KMHX	28-Jun-11	MHX	Morehead City
Milwaukee, WI	KMKX	3-Apr-12	MKX	Milwaukee
Melbourne, FL	KMLB	27-Jan-12	MLB	Melbourne
Northwest Florida/Eglin AFB, FL	KEVX	13-Jan-13	MOB	Mobile
Mobile, AL	KMOB	22-Jan-13	MOB	Mobile
Minneapolis, MN	KMPX	15-Aug-12	MPX	Minneapolis
Marquette, MI	KMQT	7-May-12	MQT	Marquette
Knoxville/Morristown, TN	KMRX	30-Jan-12	MRX	Morristown
Missoula, MT	KMSX	31-Jul-12	MSO	Missoula
San Francisco, CA	KMUX	26-Apr-12	MTR	Monterey
Omaha, NE	KOAX	28-Mar-13	OAX	Omaha
Nashville, TN	KOHX	27-Jan-12	OHX	Nashville
New York City/Upton, NY	KOKX	20-Jan-12	OKX	New York
Spokane, WA	KOTX	25-Oct-11	OTX	Spokane
Frederick/Altus AFB, OK	KFDR	15-Oct-12	OUN	Norman
Oklahoma City, OK	KTLX	8-Oct-12	OUN	Norman
Vance AFB, OK	KVNX	8-Mar-11	OUN	Norman
Ft Campbell, KY	KHPX	1-Feb-13	PAH	Paducah
Paducah, KY	KPAH	13-Jan-13	PAH	Paducah
Evansville, IN	KVWX	9-Feb-13	PAH	Paducah
Pittsburgh, PA	KPBZ	19-Jul-11	PBZ	Pittsburgh
Pendleton, OR	KPDT	6-Oct-11	PDT	Pendleton
Philadelphia, PA	KDIX	31-Jan-12	PHI	Mt Holly
Pocatello, ID	KSFX	20-Oct-12	PIH	Pocatello
Portland, OR	KRTX	27-Sep-11	PQR	Portland
Phoenix, AZ	KIWA	7-Jun-11	PSR	Phoenix
Yuma, AZ	KYUX	10-May-12	PSR	Phoenix
Pueblo, CO	KPUX	3-Apr-13	PUB	Pueblo
Raleigh/Durham, NC	KRAX	13-Nov-12	RAH	Raleigh
Reno, NV	KRGX	4-Sep-12	REV	Reno
Riverton, WY	KRIW	28-Nov-11	RIW	Riverton
Charleston, WV	KRLX	2-Oct-12	RLX	Charleston, WV
Blacksburg, VA	KFCX	11-Oct-12	RNK	Roanoke
Seattle, WA	KATX	6-Oct-11	SEW	Seattle
Langley Hill, WA	KLGX	21-Sep-11	SEW	Seattle
Springfield, MO	KSGF	17-Feb-12	SGF	Springfield
San Diego, CA	KNKX	20-Jul-12	SGX	San Diego
Santa Ana Mountains, CA	KSOX	25-Jan-12	SGX	San Diego
Shreveport, LA	KSHV	1-Feb-13	SHV	Shreveport
Dyess AFB, TX	KDYX	10-Apr-13	SJT	San Angelo
San Angelo, TX	KSJT	19-Apr-12	SJT	San Angelo
San Juan, PR	TJUA	22-May-13	SJU	San Juan
Cedar City, UT	KICX	20-Jun-12	SLC	Salt Lake City
Salt Lake City, UT	KMTX	10-Oct-12	SLC	Salt Lake City
Beale AFB, CA	KBBX	16-Mar-12	STO	Sacramento
Sacramento, CA	KDAX	27-Jun-12	STO	Sacramento
Ft Rucker, AL	KEOX	9-Feb-13	TAE	Tallahassee
Tallahassee, FL	KTLH	25-Oct-12	TAE	Tallahassee
Tampa Bay, FL	KTBW	8-Mar-12	TBW	Tampa
Great Falls, MT	KTFX	23-Jul-12	TFX	Great Falls
Topeka, KS	KTWX	30-Jan-12	TOP	Topeka
Tulsa, OK	KINX	19-Sep-12	TSA	Tulsa
Fort Smith, AR	KSRX	11-Sep-12	TSA	Tulsa
Tucson, AZ	KEMX	18-Jan-12	TWC	Tucson
Rapid City, SD	KUDX	19-Oct-12	UNR	Rapid City





Ex. 119
Case No. 13-CV-4106 CJW

C.V.

BENJAMIN J. PARROTT

Address: 1719 North Adams St. Carroll, IA 51401 (712)792-9341 Home
 E-Mail Address: benandsummer@msn.com (712)790-7414 Cell

WORK EXPERIENCE

Agronomist Mar. 2013- Present

Farm Nutrients. Rembrandt, IA

Provided nutrient recommendations for producers in 65 counties

Created farming plans for producers regarding their fertilizer, seed, and chemicals

Used remote sensing to properly apply fertilizer in the growing season

Solved problems in fields through analytical and personal analysis.

Created high crop yielding environments for producers utilizing personal expertise

Created educational components for employees and customers regarding agronomy

Technical Agronomist July 2012 - Nov. 2012

Solum Inc. Ames, IA

Worked with grain cooperatives and consultants to receive samples for increased sales

Ensured proper delivery of samples coming into testing facility

Coordinated soil sampling for field trials for increased yields

Made necessary repairs to high tech equipment for continued operations

Analyzed soil data for recommendations for commercial fertilizer

Consulted with sales representative on marketing and sales strategies

Increased sales through technical and marketing information

Agronomist Oct. 2010- July 2012

Profit Pro Ag, Albert Lea, MN

Worked directly and indirectly with the following companies: Murphy-Brown, Iowa Select, AMVC,

Prestage, Christenson Farms, Standard Nutrition, and Premium Standard

Covered territory of Iowa, SE South Dakota, NE Nebraska, and Northern Missouri

Managed and assisted independent sales representatives in technical and sales improvement

Tripled customer base and sales to service 79 livestock facilities

Sold approximately \$500,000 in manure additive products within last year of employment

Helped producers increase value of manure derived from animal operations

Assisted producer in nutrient management plans for continued growth

Worked with small producers (400 acres) and large producers (14000 acres) on increasing returns on crops grown.

Coordinated pulling of soil, manure, and plant tissue samples for regulatory and non-regulatory means.

Educated customers and public through tradeshow and meetings

Technical Sales Agronomist Jan. 2010- July 2010

LG Labs, Inc, Ellsworth, IA

Consulted with major grain cooperatives in soil measurements for future recommendations

Worked with the following cooperatives but not limited to: New Cooperative, Gold Eagle Cooperative, Heartland

Cooperative, River Valley Cooperative and Farmers Elevator Cooperative

Covered territory of the whole state of Iowa

Analyzed soils and manure for nutrient content

Provided data for the preparation of nutrient management plans

Helped expand business operations

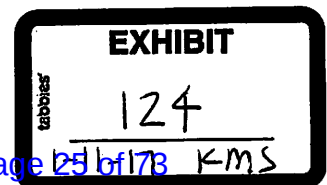
Increased sales through technical communication and guidance

Trial Ex. 126

Case 5:13-cv-04106-CJW Document 149-18 Filed 03/13/17 Page 25 of 73

Page 001

Case No. 13-CV-4106 CJW



Lab Manager

April 2009-Dec. 2009 Mobile Ag

Solutions, Glidden, IA

Directed all sales activity through different marketing opportunities

Analyzed soils, plant tissue, and manure for nutrient content

Assisted swine producers in nutrient management planning

Increased value of swine manure to be able to spread agronomically sound over more acres

Worked directly and indirectly with the following companies: AMVC, Iowa Select, Prestage, and Big Sky Pork.

Coordinated manure application with custom applicators, producers and integrators for timely service

Increased efficiency of manure through variable rate application due to found nutrient trends

Pulled manure and soil samples in accordance to regulatory means

Produced GIS maps for pre- and post manure application based on manure analysis

Managed inventory, accounting, and laboratory protocols

Performed routine maintenance on laboratory equipment

Claims Adjuster/Underwriter

June 2002-April 2009

American Home Shield, Carroll, IA

Provided contractual information to customers

Initiated approvals and denial for customers based on contractual means

Increased productivity of department through process improvement

Trained employees on new implementation and existing departmental policies

Retained existing customers through salesmanship

EDUCATION**Bachelor of Science in Agronomy (*Magna Cum Laude*)**

2007-2009

Iowa State University, Ames, IA

Bachelor of Science in Business Management

1996-2000

Northwest Missouri State University, Maryville, MO

CERTIFICATIONS

CCA-Certified Crop Advisor/Iowa

VOLUNTEER EXPERIENCE

Carroll County NRCS Carroll, IA

Mar. 2008 – July 2008

COMPUTER SKILLS

Microsoft Office, PowerPoint, Windows, GIS Software, Internet, Microsoft Access

OTHER SKILLS

ICP; Combustion Nitrogen Analyzer; Digestion Microwave; Soil, Plant, and Manure analysis

ORGANIZATIONS

United Methodist Church of Carroll, IA-Chairperson of Administrative Board 2008-2009

American Society of Agronomy

Crop Science Society of America

Soil Science Society of America

Gamma Sigma Delta

PUBLICATIONS

I have not had any of my work published

EXPERT WITNESS

I have not ever been an expert witness to date.

COMPENSATION

My billing rate is \$95/hour plus expenses.

Sources Reviewed

- 8/16/2012 Proof of Loss RCIS
- 9/11/2012 Proof of Loss RCIS

- John Brown- Report
- John Brown-Investigation File
- David Tritsch Letter

- Hail v. Non-Hail

- Grogory Meeks-Report

- 2012 Proof of Loss

- Farm Spreadsheet

- Line 1-56 field location maps

- Soybean Growth and Development-Iowa State University

- 10SoyDevt-Purdue University

- Ec128-Evaluating Hail Damage-University of Nebraska-Lincoln

- Glc-lc soybean planting populations- The learning center- Monsanto

- Assessing the impact of late season hail damage in corn and soybeans-Kansas State University

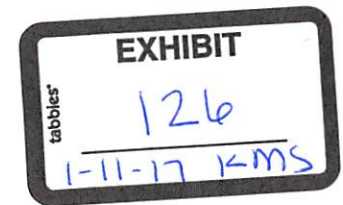
- Soybean Growth Stages- Michigan State University

- Physical Properties of Soil and Water- Plant and Soil Science eLibrary

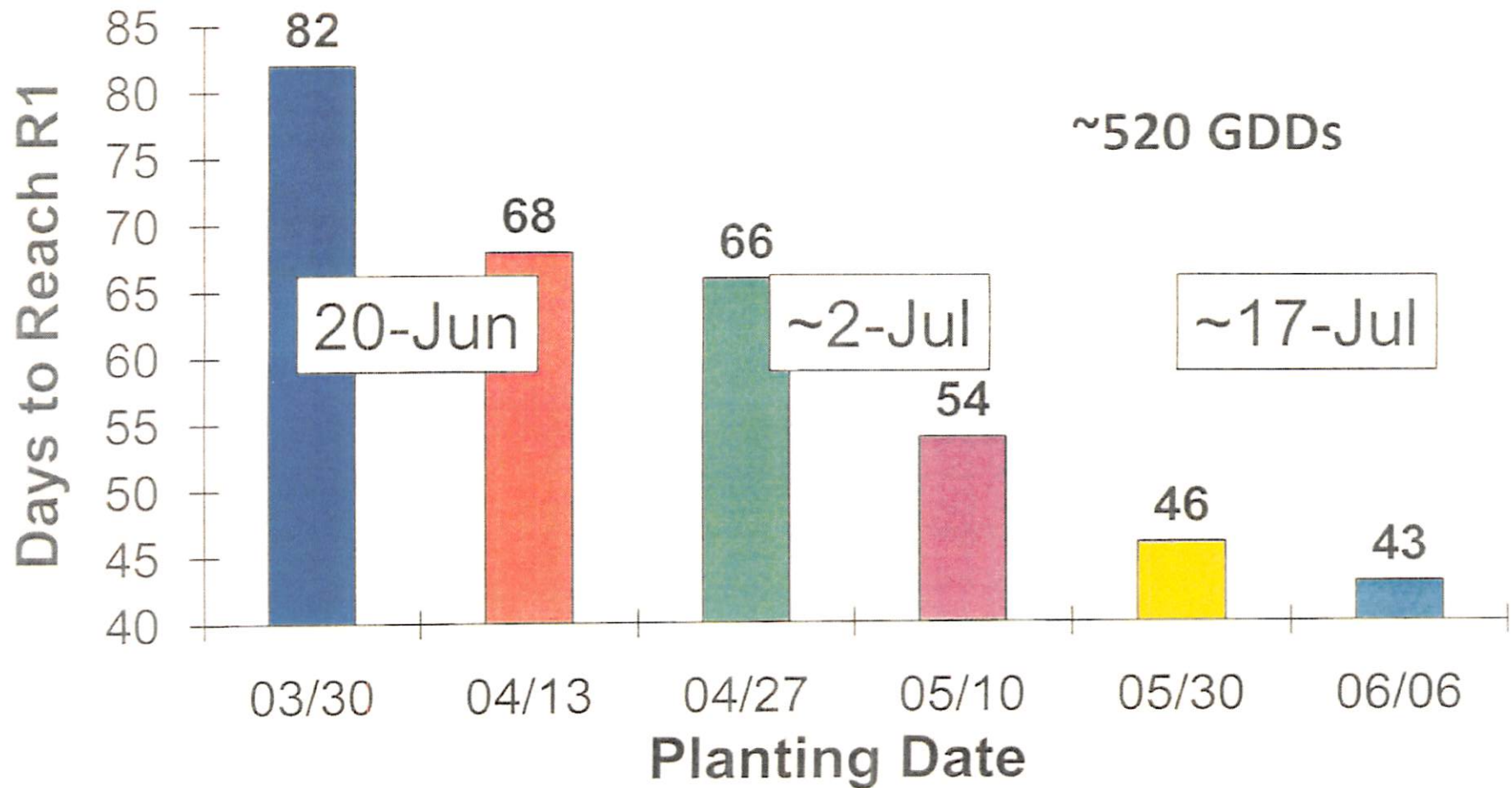
- Recovery and Assessment of Hail Damaged Soybeans- Asgrow/Monsanto

- Soybean Growth Stages – University of Wisconsin

- Agvise Laboratories Website-www.agvise.com



of Days from Planting to R1



West Lafayette, IN

SOYBEAN STATION
DELIVERING FIRST CLASS INFORMATION

©2010-11, Purdue University - 22

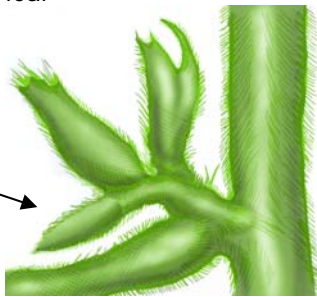
Identifying soybean growth stages -

Begin scouting for soybean rust by the reproductive (R) stages. The growth stages can overlap; consider that a growth stage begins when 50% or more of the plants are in or beyond that stage. A node is a part of the stem where a leaf is attached.

Pod development- R3 and R4

R3- Beginning pod-(5-15 days)

Pods are $\frac{3}{16}$ inch at one of the four uppermost nodes with a fully developed leaf



R4-Full pod -(4-26 days) pods are $\frac{3}{4}$ inch at one of the four uppermost nodes on a main stem with a fully developed leaf. This stage is the most critical for soybean yield.



Bloom stages- R1 and R2

R1-Beginning bloom - (1-7 days) plants have at least one open flower at any node



R2-Full bloom-(5-15 days) an open flower at one of the two uppermost nodes of the main stem



TRIAL EX. 131

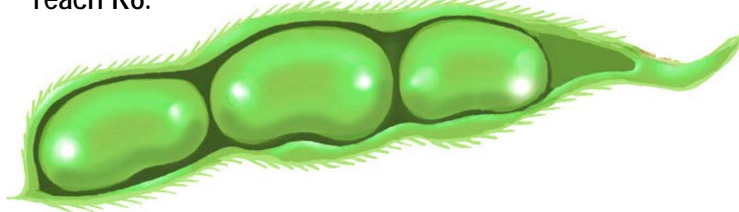
Case No. 13-CV-4106 CJW

Seed development- R5-R6

R5-Beginning seed - (11-20 days) seed is $\frac{1}{8}$ inch long in the pod at one of the four uppermost nodes on the main stem.



R6-Full seed -(9-30 days) pod containing a green seed that fills the pod capacity at one of the four uppermost nodes on the main stem -**stop scouting when soybeans reach R6.**



Maturity R7-R8

R7-Beginning maturity (7-18 days) One normal pod on the main stem has reached its mature pod color.

R-8 Full maturity 95% of pods have turned their mature color (tan or brown).

Prepared by Diane Brown-Rytlewski, Michigan State University. Drawings adapted from photos at: Soybean Extension and Research Program, Department of Agronomy, Iowa State University.

(www.soybeanmanagement.org). References for growth stage information: "Iowa Soybean Plant Develops" Special Report 53- Iowa State University and "Reproductive Soybean Development Stage and Soybean Aphid Thresholds" -University of Wisconsin Extension. Artwork by: Steven Brown

American Ag Agency LLC
532 First Avenue, Suite 103
Council Bluffs, IA 51503
Email: davidtritsch@americanagagency.com

203 Norwood Drive
Council Bluffs, IA 51503
Home: (712) 322-0850
Cell: 7123101527

Present Positions:

Principal of American Ag Agency, LLC since 2013
President of Tritsch Farms, Inc. since 1998

Past Positions:

2011-2012: Account Executive, Agri-Land Insurance Agency
2008-2010: Field representative, Heartland Crop Insurance
2003-2007: Regional Sales Manager, Fidelity National Financial
1998-2002: Product Manager, The Hartford International Agribusiness Group
1996-1997: Insurance Products Controller, Berkshire Hathaway Homestate Companies
1991-1996: Regulatory Compliance Manager, Acceptance Insurance Companies
1990-1990: Account Executive, Redland and Associates
1985-1989: Field Representative, American Agrisure
1984-1984: Clerk Typist, University of Iowa
1983-1983: Crop Adjuster, National Farmers Union
1976-1982: Crop Adjuster, Federal Crop Insurance Corporation

Education:

Executive MBA University of Nebraska at Omaha 2000
BBA Finance University of Iowa 1989

Teaching experience:

Adjunct instructor for 3 credit hour class in General Insurance, Iowa Western CC & Buena Vista College
Classroom instructor for Certificate in General Insurance during Acceptance Insurance employment
Classroom instructor for Train the Trainer program for Federal Crop Insurance

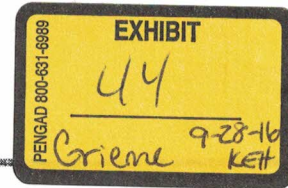
Professional Designation:

Chartered Property Casualty Underwriter (CPCU)
Crop Adjuster Proficiency Program (CAPP) crop year 2010

No peer reviewed published articles

Court Cases in Past 7 years providing expert testimony:

Robert Campfield and Mindy Campfield v. Wayne Skartvedt Iowa District Court for Story County Case NO. LACV047383



Burkhart, Larry (RCIS)

From: Burkhart, Larry (RCIS)
Sent: Monday, November 19, 2012 7:51 PM
To: Grieme, Larry L (RCIS)
Subject: Re: Hail Claim Al Bruhn # 120853

Please see if we missed a field of corn and if we did we will need to add it, otherwise we will pay without signature because the bean strips have deteriorated now to the point we cannot get accurate count and if we were there late after the storm he is probably overpaid anyway. Let me know what you come up with on the corn. Thanks.

Larry

On Nov 19, 2012, at 7:39 PM, "Grieme, Larry L (RCIS)" <Larry.Grieme@RCIS.COM> wrote:

I talked with Galen Sornson today and Bruhn is saying that there is a loss on some corn that was worked by a Kansas adjuster, is not on the total loss to date. Don't know if that is the case or not. Also he said he has taken counts in these fields of shatter we worked and came up with more of a loss than we did. I can assure you that there were counts made in all samples left, which he did leave a lot of samples to look at. I think he is being well taken care of on the shatter since it was a while after the hail when it was adjusted. We got rid of this guy 10 years ago because of things just like this.

From: Burkhart, Larry (RCIS)
Sent: Monday, November 19, 2012 3:34 PM
To: Cerven, Edward D (RCIS); Kevorkian, Steven A (RCIS); Grieme, Larry L (RCIS)
Cc: Longman, Edward J (RCIS)
Subject: RE: RE: Hail Claim Al Bruhn # 120853

½ M must not mean as much to him as it would the rest of us. Please let me know if you talk to him or leave a message—I guess we just need to tell him that we will send his claim in for payment next Monday. Documentation is important, now is a good time to make sure everything is in order there. Thanks

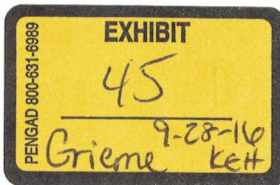
From: Cerven, Edward D (RCIS)
Sent: Monday, November 19, 2012 3:04 PM
To: Kevorkian, Steven A (RCIS); Grieme, Larry L (RCIS)
Cc: Burkhart, Larry (RCIS); Longman, Edward J (RCIS)
Subject: RE: RE: Hail Claim Al Bruhn # 120853

Burkhart says leave one more message for him.

From: Kevorkian, Steven A (RCIS)
Sent: Monday, November 19, 2012 2:30 PM
To: Cerven, Edward D (RCIS)
Subject: RE: Hail Claim Al Bruhn # 120853

Ed,

As I stated Larry Grieme and 5 adjusters worked this policy about 4 weeks ago, Larry stated the adjuster has made numerous attempts to contact the insured with no luck. Larry stated he has called the agent Terry Nielsen about not being able to contact Mr. Bruhn.

**Burkhart, Larry (RCIS)**

From: Burkhart, Larry (RCIS)
Sent: Monday, November 26, 2012 11:10 AM
To: Kevorkian, Steven A (RCIS)
Cc: Cerven, Edward D (RCIS); Grieme, Larry L (RCIS); Longman, Edward J (RCIS)
Subject: Re: Hail Claim Al Bruhn # 120853

Not much to do but pay it. Include complete explanation in the claim documentation. Thanks.

Larry

On Nov 26, 2012, at 11:04 AM, "Kevorkian, Steven A (RCIS)" <Steve.Kevorkian@RCIS.com> wrote:

Larry,
Could not make contact last week, insured's mail box full. Adjuster contacted him this morning and would not sign claim, not happy with RCIS. Agent has been updated.

Thanks,
Steve

Steve Kevorkian
Area Claims Supervisor
559-994-3710

From: Burkhart, Larry (RCIS)
Sent: Monday, November 19, 2012 3:34 PM
To: Cerven, Edward D (RCIS); Kevorkian, Steven A (RCIS); Grieme, Larry L (RCIS)
Cc: Longman, Edward J (RCIS)
Subject: RE: RE: Hail Claim Al Bruhn # 120853

½ M must not mean as much to him as it would the rest of us. Please let me know if you talk to him or leave a message---I guess we just need to tell him that we will send his claim in for payment next Monday. Documentation is important, now is a good time to make sure everything is in order there. Thanks

From: Cerven, Edward D (RCIS)
Sent: Monday, November 19, 2012 3:04 PM
To: Kevorkian, Steven A (RCIS); Grieme, Larry L (RCIS)
Cc: Burkhart, Larry (RCIS); Longman, Edward J (RCIS)
Subject: RE: RE: Hail Claim Al Bruhn # 120853

Burkhart says leave one more message for him.

From: Kevorkian, Steven A (RCIS)
Sent: Monday, November 19, 2012 2:30 PM
To: Cerven, Edward D (RCIS)
Subject: RE: Hail Claim Al Bruhn # 120853

Ed,

FFIC 0114

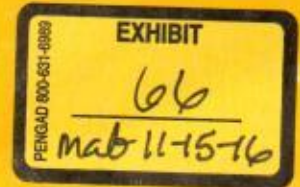
As I stated Larry Grieme and 5 adjusters worked this policy about 4 weeks ago, Larry stated the adjuster has made numerous attempts to contact the insured with no luck. Larry stated he has called the agent Terry Nielsen about not being able to contact Mr. Bruhn.

Thanks,
Steve

Galen Soruson

TRIAL EX. 152

SOYBEAN INTERPOLATION TABLES



NCIS 6310 '08 (Reprint 03/10)

3/2010

Copyright Notice

All material distributed by National Crop Insurance Services is protected by copyright and other laws. All rights reserved. Possession of this material does not confer the right to print, reprint, publish, copy, input, transform, distribute or use same in any manner without the prior written permission of NCIS.

Permission is hereby granted to Members in good standing of NCIS whose Membership Class (and service area, if membership is limited by service area) entitles them to receive copies of the enclosed or attached material to reprint, copy or distribute such NCIS copyrighted material in its present form solely for their own business use and solely to employees, adjusters or agents who are under contract with them, and as a condition to receiving such copies, such employees, adjusters and agents agree that they will not reprint, copy or distribute, or permit use of any such NCIS copyrighted material to or by any other person and/or company, or transform into another work such NCIS copyrighted material, without prior written permission of NCIS.

© 2008 National Crop Insurance Services, Inc.

INDEX

	Page
Stages of Growth	1
Time Interval Chart	2
Plants Per Acre Chart	3- 6
Stand Reduction Loss Chart VC - R1 (Indeterminate)	7- 9
Stand Reduction Loss Chart R2 - R3.5 (Indeterminate)	10-12
Defoliation Chart (Indeterminate)	13-14
Cut Off Chart	15
Stand Reduction Loss Chart (Determinate)	16-18
Defoliation Chart (Determinate)	19-20

STAGES OF GROWTH

VEGETATIVE STAGES

Vegetative stages are determined by counting the number of nodes on the main stem above the cotyledonary nodes. All stages are based on 50% of the plants at or beyond a given phase of development.

Stage	Description
Emergence and VC.....	Plants before Stage V1
V1	Fully developed leaves at the unifoliate node.
V2	Fully developed trifoliate at second node above cotyledonary nodes.
V3	Fully developed trifoliate at third node above cotyledonary nodes.
V4	Fully developed trifoliate at fourth node above cotyledonary nodes.
V6	Fully developed trifoliate at sixth node above cotyledonary nodes.
V10	Fully developed trifoliate at tenth node above cotyledonary nodes.

REPRODUCTIVE STAGES

Reproductive stages are based on flowering, pod development, seed development, and plant maturation.

Reproductive stages are subdivided into half stages for adjusting losses. Development for a half stage is midway between that of stages with a whole number. All stages are based on 50% of the plants at or beyond a given phase of development.

Stage	Description
<u>Indeterminate</u>	
R1	One open flower at any node on main stem.
R2	Open flower at one of the two uppermost nodes on the main stem with a fully developed leaf.
<u>Determinate</u>	
R1-2	Flower just visible at one of the four uppermost nodes.
<u>Both Determinate and Indeterminate</u>	
R3	Pod just visible at one of the four uppermost nodes.
R4	Pod $\frac{1}{4}$ inch long at one of the four uppermost nodes.
R5	Seeds beginning to develop at one of the four uppermost nodes. A seed is considered "beginning to develop" when it is $\frac{1}{8}$ inch in length.
R6	Pod containing green seeds that fills the pod cavity at one of the four uppermost nodes.
R6.5	When all the normal pods on the four uppermost nodes of the main stem have their pod cavities completely filled, suture to suture, with seed.
R7	One normal pod on the main stem that has reached its mature pod color.
R8	95% of pods brown.

TIME INTERVAL CHART

Time intervals represent the average number of days required for the plant to develop from one stage to the next.

VEGETATIVE STAGES

Emergence of seedlings from the soil to V1	10 days
V1 to V2	5 days
V2 to V3	5 days
V3 to V4	5 days
V4 to V5	5 days
V5 to V6	3 days
Time interval between all V stages after V5 is 3 days.	
V6 to V7	3 days

REPRODUCTIVE STAGES

R1 to R2	3 days
R2 to R3	7 days
R3 to R4	9 days
R4 to R5	9 days
R5 to R6	15 days
R6 to R7	18 days
R7 to R8	9 days
Time intervals for half-stages are one-half the number of days between whole stages.	

PLANTS PER ACRE

INSTRUCTIONS: Count the number of plants in a representative 10 feet of row (3-foot square grid for broadcast). Find the number in the appropriate row width column. If the number of counted plants is not shown on the table, use the next higher shown number. Then go to the far left column to find the number of plants per acre.

If the number of counted plants in ten feet of row is greater than the top number in the appropriate row width column, divide the number of plants by 2, and proceed as above. Multiply the plants per acre found in the left column by 2 to arrive at the actual number of plants per acre. (Refer to **EXAMPLE 1** below.) If the number of counted plants in ten feet of row is fewer than the lowest number in the appropriate row width column, multiply the number of plants by 2, and proceed as above. Divide the plants per acre found in the left column by 2 to arrive at the actual number of plants per acre. (Refer to **EXAMPLE 2** below.) If the plant population is above 125,000, round to the nearest 5,000. If the population is below 125,000, round to the nearest 2,500. (Refer to examples below.)

EXAMPLE 1:

Row Width = 30 in.

110 Original Plants in 10 ft. of Row

$110 \div 2 = 55$

55 Original Plants = 95,000 plants per acre

$95,000 \text{ plants per acre} \times 2 = 190,000$

EXAMPLE 2:

Row Width = 30 in.

4 Original Plants in 10 ft. of Row

$4 \times 2 = 8$

8 Original Plants = 15,000 plants per acre

$15,000 \text{ plants per acre} \div 2 = 7,500$

If the planted row width is not listed on the table, divide the row width, in inches, by 12. Multiply this result by 10 to arrive at the square feet in the sample. Count the number of plants in the sample and divide by the square feet to arrive at plants per square foot. Multiply plants per square foot by 43,560 sq. ft. per acre to arrive at plants per acre. If the plant population is above 125,000, round to the nearest 5,000. If the population is below 125,000, round to the nearest 2,500.

ROW WIDTH IN INCHES

Plants Per Acre	40	38	36	34	32	30	28	26	24	22	20	18	16	15	14	12	10	8	7.5	7	6	Broadcast (3' x 3')
180,000	138	131	124	117	110	103	96	90	83	76	69	62	55	52	48	41	34	28	26	24	21	37
175,000	134	127	121	114	107	100	94	87	80	74	67	60	54	50	47	40	33	27	25	23	20	36
170,000	130	124	117	111	104	98	91	85	78	72	65	59	52	49	46	39		26	24			35
165,000	126	120	114	107	101	95	88	82	76	69	63	57	51	47	44	38	32	25		22	19	34
160,000	122	116	110	104	98	92	86	80	73	67	61	55	49	45	43	37	31	24	23	21	18	33
155,000	119	113	107	101	95	89	83	77	71	65	59	53	47	44	42	36	30		22			32
150,000	115	109	103	98	92	86	80	75	69	63	57	52	46	43	40	34	29	23		20	17	31
145,000	111	105	100	94	89	83	78	72	67	61	55	50	44		39	33	28	22	21	19		30
140,000	107	102	96	91	86	80	75	70	64	59	54	48	43	40	37	32	27	21	20		16	29
135,000	103	98	93	88	83	77	72	67	62	57	52	46	41	39	36	31	26		19	18	15	28
130,000	99	95	90	85	80	75	70	65	60	55	50	45	40	37	35	30	25	20		17		27
125,000	96	91	86	81	77	72	67	62	57	53	48	43	38	36	33	29	24	19	18		14	26
122,500	94	89	84	80	75	70	66	61	56	52	47	42	37	35		28				16		
120,000	92	87	83	78	73	69	64	60	55	51	46	41		34	32		23	18	17			25
117,500	90	85	81	76	72	67	63	58	54	49	45	40	36		31	27	22				13	
115,000	88	84	79	75	70	66	62	57	53	48	44		35	33		26				15		24
112,500	86	81	77	73	69	64	60	56	51	47	43	39	34	32	30		21	17	16			
110,000	84	80	76	72	67	63	59	55		46	42	38			29	25						23
107,500	82	78	74	70	66	62	58	53	49	45	41	37	33	31				16	15	14	12	

Number of Plants in Ten Feet of Row

ROW WIDTH IN INCHES

Plants Per Acre	40	38	36	34	32	30	28	26	24	22	20	18	16	15	14	12	10	8	7.5	7	6	Broadcast (3' x 3')
105,000	80	76	72	68	64	60	56	52	48	44	40	36	32	30	28	24	20					22
102,500	78	75	71	67	63	59	55	51	47	43	39	35	31	29	27							
100,000	77	73	69	65	61	57	54	50	46	42	38	34				23	19	15	14	13	11	21
97,500	75	71	67	63	60	56	52	48	45	41	37		30	28	26	22						
95,000	73	69	65	62	58	55	51	47	44	40	36	33	29	27	25		18					20
92,500	71	67	64	60	57	53	50	46	42	39	35	32	28			21	14	13	12			19
90,000	69	65	62	59	55	52	48	45	41	38	34	31		26	24		17				10	18
87,500	67	64	60	57	54	50	47	44	40	37	33	30	27	25	23	20		13				
85,000	65	62	59	55	52	49	46	42	39	36		29	26	24			16		12	11		17
82,500	63	60	57	54	51	47	44	41	38	35	32	28	25		22	19					9	
80,000	61	58	55	52	49	46	43	40	37	34	31		24	23	21	18	15	12	11			16
77,500	59	56	53	50	47	44	42	39	36	33	30	27		22					10			
75,000	57	55	52	49	46	43	40	37	34	32	29	26	23		20	17	14	11				15
72,500	55	53	50	47	44	42	39	36	33	31	28	25	22	21	19			10			8	
70,000	54	51	48	46	43	40	37	35	32	29	27	24	21	20		16	13			9		14
67,500	52	49	46	44	41	39	36	34	31	28	26	23		19	18	15		10				
65,000	50	47	45	42	40	37	35	32	30	27	25	22	20		17		12		9		7	13
62,500	48	45	43	41	38	36	33	31	29	26	24		19	18		14			8			
60,000	46	44	41	39	37	34	32	30	28	25	23	21	18	17	16		11	9				12
57,500	44	42	40	37	35	33	31	29	26	24	22	20			15	13			8			
55,000	42	40	38	36	34	32	29	27	25	23	21	19	17	16				8		7	6	11

Number of Plants in Ten Feet of Row

ROW WIDTH IN INCHES

Plants Per Acre	40	38	36	34	32	30	28	26	24	22	20	18	16	15	14	12	10	8	7.5	7	6	Broadcast (3' x 3')
52,500	40	38	36	34	32	30	28	26	24	22	20	18	16	15	14	12	10					
50,000	38	36	34	33	31	29	27	25	23	21	19	17	15	14	13	11			7			10
47,500	36	35	33	31	29	27	25	24	22	20	18	16					9	7		6	5	
45,000	34	33	31	29	28	26	24	22	21	19	17	15	14	13	12	10			6			9
42,500	33	31	29	28	26	24	23	21	20	18	16		13	12	11		8					
40,000	31	29	28	26	24	23	21	20	18	17	15	14	12	11		9		6		5		8
37,500	29	27	26	24	23	22	20	19	17	16	14	13	11		10		7		5		4	
35,000	27	25	24	23	21	20	19	17	16	15	13	12		10	9	8		5				7
32,500	25	24	22	21	20	19	17	16	15	14	12	11	10			7	6			4		
30,000	23	22	21	20	18	17	16	15	14	13	11	10	9	9	8				4		3	6
27,500	21	20	19	18	17	16	15	14	13	12		9	8	7	6	5	4					
25,000	19	18	17	16	15	14	13	12	11	11	10			7						3		5
22,500	17	16	15	15	14	13	12	11	10	9	9	8	7	6	6	5	4	3	3			
20,000	15	15	14	13	12	11	11	10	9	8	8	7	6		5						2	4
17,500	13	13	12	11	11	10	9	9	8	7	7	6	5	5		4	3			2		
15,000	11	11	10	10	9	9	8	7	7	6	6	5		4	4	3		2	2			3
12,500	10	9	9	8	8	7	7	6	6	5	5	4	4		3		2				1	
10,000	8	7	7	7	6	6	5	5	5	4	4	3	3	3		2			1	1		2
7,500	6	5	5	5	5	4	4	4	3	3	3		2	2	2		1	1				
5,000	4	4	3	3	3	3	3	2	2	2	2	2		1	1	1						1
2,500	2	2	2	2	2	1	1	1	1	1	1	1	1									

Number of Plants in Ten Feet of Row

INDETERMINATE SOYBEANS STAND REDUCTION LOSS CHART FOR STAGES VC – R1

7

Original Stand Plants/ Acre (1000)	REMAINING PLANTS PER ACRE (1000)																														
	180	175	170	165	160	155	150	145	140	135	130	125	122.5	120	117.5	115	112.5	110	107.5	105	102.5	100	97.5	95	92.5	90	87.5	85	82.5	80	77.5
180	0	0	0	0	0	1	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
175		0	0	0	0	0	1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
170			0	0	0	0	1	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
165				0	0	0	0	1	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
160					0	0	0	0	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
155						0	0	0	1	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
150							0	0	0	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
145								0	0	1	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
140									0	0	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
135										0	1	2	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
130											0	1	2	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
125												0	1	2	3	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
122.5													0	1	2	3	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
120														0	1	2	3	3	4	4	4	5	5	5	6	6	7	7	8	9	9
117.5															0	1	2	3	4	4	4	5	5	5	6	6	7	7	8	9	9
115																0	1	2	3	4	4	4	5	5	5	6	6	7	7	8	9
112.5																	0	1	2	3	4	4	4	5	5	5	6	6	7	7	8
110																		0	1	2	3	4	4	4	5	5	5	6	6	7	8
107.5																			0	1	2	3	4	4	4	5	5	5	6	6	7
105																				0	1	2	3	4	4	4	5	5	5	6	7
102.5																					0	1	2	3	4	4	4	5	5	5	6
100																						0	1	2	3	4	4	4	5	5	6
97.5																							0	1	2	3	4	4	4	5	6
95																								0	1	2	3	4	4	5	6
92.5																									0	1	2	3	4	4	5
90																										0	1	2	3	4	5
87.5																											0	1	2	3	4
85																												0	1	2	3
82.5																													0	1	2
80																														0	1
77.5																															0

INDETERMINATE SOYBEANS STAND REDUCTION LOSS CHART FOR STAGES VC – R1 (continued)

Original Stand Plants/ Acre (1000)	REMAINING PLANTS PER ACRE (1000)																														
	75	72.5	70	67.5	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25	22.5	20	17.5	15	12.5	10	7.5	5	2.5	0
180	10	11	12	13	14	15	16	18	19	20	22	24	26	28	30	32	35	38	40	44	47	51	55	59	64	69	74	80	86	93	100
175	10	11	12	13	14	15	16	17	19	20	22	24	26	28	30	32	35	37	40	44	47	51	55	59	64	69	74	80	86	93	100
170	10	11	12	13	14	15	16	17	19	20	22	24	26	28	30	32	35	37	40	44	47	51	55	59	64	69	74	80	86	93	100
165	10	11	12	13	14	15	16	17	19	20	22	24	25	28	30	32	35	37	40	43	47	51	55	59	64	69	74	80	86	93	100
160	10	11	12	13	14	15	16	17	19	20	22	23	25	27	30	32	35	37	40	43	47	51	55	59	64	69	74	80	86	93	100
155	10	11	11	12	13	15	16	17	18	20	22	23	25	27	30	32	34	37	40	43	47	51	55	59	63	68	74	80	86	93	100
150	10	10	11	12	13	14	16	17	18	20	22	23	25	27	29	32	34	37	40	43	47	50	54	59	63	68	74	80	86	93	100
145	9	10	11	12	13	14	15	17	18	20	21	23	25	27	29	32	34	37	40	43	47	50	54	59	63	68	74	80	86	93	100
140	9	10	11	12	13	14	15	17	18	20	21	23	25	27	29	32	34	37	40	43	47	50	54	59	63	68	74	80	86	93	100
135	9	10	11	12	13	14	15	16	18	19	21	23	25	27	29	31	34	37	40	43	46	50	54	58	63	68	74	80	86	93	100
130	9	10	10	11	13	14	15	16	18	19	21	23	24	27	29	31	34	37	40	43	46	50	54	58	63	68	74	80	86	93	100
125	8	9	10	11	12	13	15	16	17	19	21	22	24	26	29	31	33	36	39	43	46	50	54	58	63	68	74	79	86	93	100
122.5	8	9	10	11	12	13	14	16	17	19	20	22	24	26	28	31	33	36	39	42	46	50	54	58	63	68	73	79	86	93	100
120	8	9	10	11	12	13	14	16	17	19	20	22	24	26	28	31	33	36	39	42	46	50	54	58	63	68	73	79	86	93	100
117.5	8	9	10	11	12	13	14	15	17	18	20	22	24	26	28	30	33	36	39	42	46	49	54	58	63	68	73	79	86	93	100
115	8	8	9	10	11	13	14	15	17	18	20	22	24	26	28	30	33	36	39	42	46	49	53	58	63	68	73	79	86	93	100
112.5	7	8	9	10	11	12	14	15	16	18	20	21	23	25	28	30	33	36	39	42	45	49	53	58	63	68	73	79	86	93	100
110	7	8	9	10	11	12	13	15	16	18	19	21	23	25	28	30	33	35	38	42	45	49	53	58	62	68	73	79	86	93	100
107.5	7	8	9	10	11	12	13	14	16	17	19	21	23	25	27	30	32	35	38	42	45	49	53	58	62	67	73	79	86	92	100
105	7	7	8	9	10	12	13	14	16	17	19	21	23	25	27	30	32	35	38	41	45	49	53	57	62	67	73	79	85	92	100
102.5	6	7	8	9	10	11	13	14	15	17	19	20	22	25	27	29	32	35	38	41	45	49	53	57	62	67	73	79	85	92	100
100	6	7	8	9	10	11	12	14	15	17	18	20	22	24	27	29	32	35	38	41	45	48	53	57	62	67	73	79	85	92	100
97.5	5	6	7	8	9	11	12	13	15	16	18	20	22	24	26	29	31	34	37	41	44	48	52	57	62	67	73	79	85	92	100
95	5	6	7	8	9	10	11	13	14	16	18	19	21	24	26	28	31	34	37	40	44	48	52	57	62	67	73	79	85	92	100
92.5	5	5	6	7	9	10	11	12	14	15	17	19	21	23	26	28	31	34	37	40	44	48	52	56	61	67	72	78	85	92	100
90	4	5	6	7	8	9	11	12	13	15	17	19	21	23	25	28	30	33	36	40	43	47	52	56	61	67	72	78	85	92	100
87.5	4	4	5	6	8	9	10	11	13	15	16	18	20	22	25	27	30	33	36	39	43	47	51	56	61	66	72	78	85	92	100
85	3	4	5	6	7	8	9	11	12	14	16	18	20	22	24	27	30	33	36	39	43	47	51	56	61	66	72	78	85	92	100

INDETERMINATE SOYBEANS STAND REDUCTION LOSS CHART FOR STAGES VC – R1 (continued)

9

Original Stand Plants/ Acre (1000)	REMAINING PLANTS PER ACRE (1000)																														
	75	72.5	70	67.5	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25	22.5	20	17.5	15	12.5	10	7.5	5	2.5	0
82.5	2	3	4	5	6	8	9	10	12	13	15	17	19	21	24	26	29	32	35	39	42	46	51	55	60	66	72	78	85	92	100
80	2	3	4	5	6	7	8	10	11	13	15	17	19	21	23	26	29	32	35	38	42	46	50	55	60	66	72	78	85	92	100
77.5	1	2	3	4	5	6	8	9	10	12	14	16	18	20	23	25	28	31	34	38	42	46	50	55	60	65	71	78	85	92	100
75	0	1	2	3	4	5	7	8	10	11	13	15	17	19	22	25	27	30	34	37	41	45	50	54	60	65	71	78	84	92	100
72.5		0	1	2	3	4	6	7	9	11	12	14	16	19	21	24	27	30	33	37	41	45	49	54	59	65	71	77	84	92	100
70			0	1	2	4	5	6	8	10	11	13	16	18	20	23	26	29	32	36	40	44	49	54	59	64	71	77	84	92	100
67.5				0	1	2	4	5	7	9	11	13	15	17	20	22	25	28	32	35	39	44	48	53	58	64	70	77	84	92	100
65					0	1	3	4	6	8	9	11	14	16	19	21	24	27	31	35	39	43	47	52	58	64	70	77	84	92	100
62.5						0	1	3	5	6	8	10	13	15	17	20	23	26	30	34	38	42	47	52	57	63	69	76	84	91	100
60							0	2	3	5	7	9	11	14	16	19	22	25	29	33	37	41	46	51	57	63	69	76	83	91	100
57.5								0	2	4	5	8	10	12	15	18	21	24	28	32	36	40	45	50	56	62	68	76	83	91	100
55									0	2	4	6	8	11	14	16	20	23	27	31	35	39	44	49	55	61	68	75	83	91	100
52.5										0	2	4	7	9	12	15	18	21	25	29	34	38	43	49	54	61	67	75	82	91	100
50											0	2	5	7	10	13	16	20	24	28	32	37	42	47	53	60	67	74	82	91	100
47.5												0	2	5	8	11	14	18	22	26	31	35	41	46	52	59	66	73	82	90	100
45													0	3	6	9	12	16	20	24	29	34	39	45	51	58	65	73	81	90	100
42.5														0	3	6	10	14	18	22	27	32	37	43	50	57	64	72	81	90	100
40															0	3	7	11	15	20	25	30	35	42	48	55	63	71	80	90	100
37.5																0	4	8	12	17	22	27	33	40	46	54	62	70	79	89	100
35																	0	4	9	14	19	25	31	37	44	52	60	69	79	89	100
32.5																		0	5	10	15	21	28	34	42	50	58	68	78	88	100
30																			0	5	11	17	24	31	39	47	56	66	77	88	100
27.5																				0	6	13	20	27	36	44	54	64	75	87	100
25																					0	7	14	23	31	41	51	62	74	86	100
22.5																						0	8	17	26	36	47	59	72	85	100
20																							0	9	20	31	43	55	69	84	100
17.5																								0	11	23	37	51	66	82	100
15																									0	14	28	44	62	80	100

INDETERMINATE SOYBEANS STAND REDUCTION LOSS CHART FOR STAGES R2 – R3.5

Original Stand Plants/ Acre (1000)	REMAINING PLANTS PER ACRE (1000)																														
	180	175	170	165	160	155	150	145	140	135	130	125	122.5	120	117.5	115	112.5	110	107.5	105	102.5	100	97.5	95	92.5	90	87.5	85	82.5	80	77.5
180	0	1	2	3	4	5	7	8	9	11	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	31	32	33	35
175		0	1	2	3	4	6	7	9	10	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	28	29	30	31	33	34
170			0	1	2	3	5	6	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	26	27	28	29	31	32	33
165				0	1	2	4	5	7	8	10	11	12	13	14	15	16	17	18	19	20	21	22	24	25	26	27	29	30	31	33
160					0	1	3	4	5	7	9	10	11	12	13	14	15	16	17	18	19	20	21	23	24	25	26	28	29	30	32
155						0	1	3	4	6	7	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	27	28	30	31
150							0	1	3	5	6	8	9	10	11	12	13	14	15	16	17	18	19	21	22	23	24	26	27	29	30
145								0	2	3	5	7	8	9	10	11	13	14	15	16	17	18	19	21	22	23	25	26	28	29	
140									0	2	3	5	6	7	8	9	10	11	12	13	15	16	17	18	19	21	22	24	25	26	28
135										0	2	4	5	6	7	8	9	10	11	12	13	14	16	17	18	19	21	22	24	25	27
130											0	2	3	4	5	6	7	8	9	10	12	13	14	15	17	18	19	21	22	24	25
125												0	1	2	3	4	5	6	7	9	10	11	12	14	15	16	18	19	21	22	24
122.5													0	1	2	3	4	5	7	8	9	10	12	13	14	16	17	19	20	22	23
120														0	1	2	3	4	6	7	8	9	11	12	13	15	16	18	19	21	22
117.5															0	1	2	3	5	6	7	8	10	11	12	14	15	17	18	20	22
115																0	1	2	4	5	6	7	9	10	11	13	14	16	17	19	21
112.5																	0	1	2	4	5	6	8	9	10	12	13	15	17	18	20
110																		0	1	3	4	5	7	8	9	11	12	14	16	17	19
107.5																			0	1	3	4	5	7	8	10	11	13	14	16	18
105																				0	1	3	4	6	7	9	10	12	13	15	17
102.5																					0	1	3	4	6	7	9	11	12	14	16
100																						0	1	3	4	6	8	9	11	13	14
97.5																							0	2	3	5	6	8	10	11	13
95																								0	2	3	5	7	8	10	12
92.5																									0	2	3	5	7	9	10
90																										0	2	3	5	7	9
87.5																											0	2	4	5	7
85																												0	2	4	6
82.5																													0	2	4
80																														0	2
77.5																															0

10

11

Original Stand Plants/Acre (1000)	REMAINING PLANTS PER ACRE (1000)																														
	75	72.5	70	67.5	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25	22.5	20	17.5	15	12.5	10	7.5	5	2.5	0
180	36	37	39	40	42	44	45	47	49	50	52	54	56	58	60	62	64	66	68	71	73	75	78	80	83	86	88	91	94	97	100
175	35	37	38	40	41	43	45	46	48	50	52	54	55	57	59	62	64	66	68	70	73	75	78	80	83	85	88	91	94	97	100
170	35	36	38	39	41	42	44	46	48	49	51	53	55	57	59	61	63	65	68	70	72	75	77	80	83	85	88	91	94	97	100
165	34	36	37	39	40	42	43	45	47	49	51	53	55	57	59	61	63	65	67	70	72	75	77	80	82	85	88	91	94	97	100
160	33	35	36	38	39	41	43	45	46	48	50	52	54	56	58	60	62	65	67	69	72	74	77	80	82	85	88	91	94	97	100
155	32	34	35	37	39	40	42	44	46	48	49	51	53	55	58	60	62	64	67	69	71	74	77	79	82	85	88	91	94	97	100
150	31	33	35	36	38	40	41	43	45	47	49	51	53	55	57	59	61	64	66	69	71	74	76	79	82	85	88	91	94	97	100
145	31	32	34	35	37	39	40	42	44	46	48	50	52	54	56	59	61	63	66	68	71	73	76	79	81	84	87	90	94	97	100
140	29	31	33	34	36	38	40	41	43	45	47	49	51	53	56	58	60	63	65	68	70	73	76	78	81	84	87	90	93	97	100
135	28	30	32	33	35	37	39	40	42	44	46	48	51	53	55	57	60	62	65	67	70	72	75	78	81	84	87	90	93	97	100
130	27	29	30	32	34	36	37	39	41	43	45	47	50	52	54	56	59	61	64	66	69	72	75	78	81	84	87	90	93	97	100
125	26	27	29	31	33	34	36	38	40	42	44	46	49	51	53	56	58	61	63	66	69	71	74	77	80	83	86	90	93	96	100
122.5	25	27	28	30	32	34	36	38	40	42	44	46	48	50	53	55	58	60	63	66	68	71	74	77	80	83	86	90	93	96	100
120	24	26	28	29	31	33	35	37	39	41	43	45	48	50	52	55	57	60	62	65	68	71	74	77	80	83	86	89	93	96	100
117.5	23	25	27	29	30	32	34	36	38	40	43	45	47	49	52	54	57	59	62	65	68	70	73	76	80	83	86	89	93	96	100
115	22	24	26	28	30	32	34	36	38	40	42	44	46	49	51	54	56	59	62	64	67	70	73	76	79	83	86	89	93	96	100
112.5	22	23	25	27	29	31	33	35	37	39	41	44	46	48	51	53	56	58	61	64	67	70	73	76	79	82	86	89	93	96	100
110	21	22	24	26	28	30	32	34	36	38	41	43	45	48	50	53	55	58	61	64	66	69	72	76	79	82	86	89	93	96	100
107.5	20	21	23	25	27	29	31	33	35	38	40	42	45	47	49	52	55	57	60	63	66	69	72	75	79	82	85	89	92	96	100
105	19	20	22	24	26	28	30	32	34	37	39	41	44	46	49	51	54	57	60	63	66	69	72	75	78	82	85	89	92	96	100
102.5	17	19	21	23	25	27	29	31	34	36	38	41	43	46	48	51	54	56	59	62	65	68	71	75	78	81	85	89	92	96	100
100	16	18	20	22	24	26	28	30	33	35	37	40	42	45	47	50	53	56	59	62	65	68	71	74	78	81	85	88	92	96	100
97.5	15	17	19	21	23	25	27	29	32	34	36	39	41	44	47	49	52	55	58	61	64	67	71	74	77	81	85	88	92	96	100
95	14	16	18	20	22	24	26	28	31	33	35	38	40	43	46	49	51	54	57	60	64	67	70	74	77	81	84	88	92	96	100
92.5	12	14	16	18	21	23	25	27	30	32	34	37	40	42	45	48	51	54	57	60	63	66	70	73	77	80	84	88	92	96	100
90	11	13	15	17	19	21	24	26	28	31	33	36	39	41	44	47	50	53	56	59	62	66	69	73	76	80	84	88	92	96	100
87.5	9	11	13	16	18	20	22	25	27	30	32	35	37	40	43	46	49	52	55	58	62	65	69	72	76	80	83	87	92	96	100
85	8	10	12	14	16	19	21	23	26	28	31	34	36	39	42	45	48	51	54	58	61	64	68	72	75	79	83	87	91	96	100

INDETERMINATE SOYBEANS STAND REDUCTION LOSS CHART FOR STAGES R2 – R3.5 (continued)

Original Stand Plants/ Acre (1000)	REMAINING PLANTS PER ACRE (1000)																														
	75	72.5	70	67.5	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25	22.5	20	17.5	15	12.5	10	7.5	5	2.5	0
82.5	6	8	10	12	15	17	19	22	24	27	30	32	35	38	41	44	47	50	54	57	60	64	67	71	75	79	83	87	91	96	100
80	4	6	8	11	13	15	18	20	23	26	28	31	34	37	40	43	46	49	53	56	60	63	67	71	74	78	83	87	91	95	100
77.5	2	4	7	9	11	14	16	19	21	24	27	30	32	35	39	42	45	48	52	55	59	62	66	70	74	78	82	86	91	95	100
75	0	2	5	7	9	12	14	17	20	22	25	28	31	34	37	40	44	47	51	54	58	62	65	69	73	78	82	86	91	95	100
72.5		0		5	7	10	12	15	18	21	23	26	29	33	36	39	42	46	49	53	57	61	65	69	73	77	81	86	90	95	100
70			0	2	5	8	10	13	16	19	22	25	28	31	34	38	41	45	48	52	56	60	64	68	72	76	81	86	90	95	100
67.5				0	3	5	8	11	14	17	20	23	26	29	33	36	40	43	47	51	55	59	63	67	71	76	80	85	90	95	100
65					0	3	6	8	11	14	17	21	24	27	31	34	38	42	45	49	53	58	62	66	71	75	80	85	90	95	100
62.5						0	3	6	9	12	15	18	22	25	29	32	36	40	44	48	52	56	61	65	70	75	79	84	89	95	100
60							0	3	6	9	13	16	20	23	27	30	34	38	42	46	51	55	60	64	69	74	79	84	89	94	100
57.5								0	3	7	10	13	17	21	24	28	32	36	40	45	49	54	58	63	68	73	78	83	89	94	100
55									0	3	7	11	14	18	22	26	30	34	38	43	47	52	57	62	67	72	77	83	88	94	100
52.5										0	4	7	11	15	19	23	28	32	36	41	46	50	55	60	66	71	77	82	88	94	100
50											0	4	8	12	16	20	25	29	34	39	44	49	54	59	64	70	76	82	88	94	100
47.5												0	4	8	13	17	22	26	31	36	41	47	52	57	63	69	75	81	87	93	100
45													0	4	9	14	18	23	28	33	39	44	50	55	61	67	74	80	86	93	100
42.5														0	5	10	15	20	25	30	36	42	47	53	60	66	72	79	86	93	100
40															0	5	10	16	21	27	33	39	45	51	58	64	71	78	85	92	100
37.5																0	6	11	17	23	29	35	42	48	55	62	69	77	84	92	100
35																	0	6	12	18	25	32	38	45	53	60	68	75	83	92	100
32.5																		0	7	13	20	27	35	42	50	58	66	74	82	91	100
30																			0	7	15	22	30	38	46	55	63	72	81	90	100
27.5																				0	8	16	25	33	42	51	60	70	80	90	100
25																					0	9	18	27	37	47	57	67	78	89	100
22.5																						0	10	20	31	42	53	64	76	88	100
20																							0	11	23	35	47	60	73	86	100
17.5																								0	13	27	41	55	70	85	100
15																									0	16	32	48	65	82	100

INDETERMINATE SOYBEANS DEFOLIATION CHART

13

	DEFOLIATION %																									
Stages	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Vc-Vn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
R2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.0	2.0	2.0	2.0	2.0
R2.5	0.0	0.2	0.4	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.4	1.6	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.6	2.8	3.0
R3	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.6	3.8	4.0
R3.5	0.0	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0
R4	0.0	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0
R4.5	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.4	6.8	7.2	7.6	8.0
R5	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.2	6.4	6.6	6.8	7.0	7.4	7.8	8.2	8.6	9.0
R5.5	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.2	6.4	6.6	6.8	7.0	7.4	7.8	8.2	8.6	9.0
R6	0.0	0.2	0.4	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.4	1.8	2.2	2.6	3.0	3.6	4.2	4.8	5.4	6.0	6.4	6.8	7.2	7.6	8.0
R6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0

Stages	DEFOLIATION %																								
	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Vc-Vn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R1	1.2	1.4	1.6	1.8	2.0	2.0	2.0	2.0	2.0	2.2	2.4	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
R2	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.2	5.4	5.6	5.8	6.0
R2.5	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0
R3	4.0	4.0	4.0	4.0	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0
R3.5	5.0	5.0	5.0	5.0	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.4	8.8	9.2	9.6	10.0
R4	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.4	10.8	11.2	11.6	12.0
R4.5	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0
R5	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0
R5.5	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0
R6	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0
R6.5	1.0	1.0	1.0	1.0	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.6	3.8	4.0

INDETERMINATE SOYBEANS DEFOLIATION CHART (Continued)

Stages	DEFOLIATION %																								
	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Vc-Vn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R1	3.2	3.4	3.6	3.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.2	4.4	4.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0
R2	6.2	6.4	6.6	6.8	7.0	7.0	7.0	7.0	7.0	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0
R2.5	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.4	11.8	12.2	12.6	13.0
R3	8.2	8.4	8.6	8.8	9.0	9.4	9.8	10.2	10.6	11.0	11.2	11.4	11.6	11.8	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0
R3.5	10.2	10.4	10.6	10.8	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0	15.6	16.2	16.8	17.4	18.0	18.6	19.2	19.8	20.4	21.0
R4	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.6	17.2	17.8	18.4	19.0	19.6	20.2	20.8	21.4	22.0	22.8	23.6	24.4	25.2	26.0
R4.5	15.4	15.8	16.2	16.6	17.0	17.6	18.2	18.8	19.4	20.0	20.6	21.2	21.8	22.4	23.0	23.8	24.6	25.4	26.2	27.0	27.8	28.6	29.4	30.2	31.0
R5	17.6	18.2	18.8	19.4	20.0	20.6	21.2	21.8	22.4	23.0	23.8	24.6	25.4	26.2	27.0	27.8	28.6	29.4	30.2	31.0	32.0	33.0	34.0	35.0	36.0
R5.5	17.6	18.2	18.8	19.4	20.0	20.6	21.2	21.8	22.4	23.0	23.8	24.6	25.4	26.2	27.0	27.8	28.6	29.4	30.2	31.0	32.0	33.0	34.0	35.0	36.0
R6	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.6	21.2	21.8	22.4	23.0	23.8	24.6	25.4	26.2	27.0
R6.5	4.2	4.4	4.6	4.8	5.0	5.0	5.0	5.0	5.0	5.0	5.2	5.4	5.6	5.8	6.0	6.4	6.8	7.2	7.6	8.0	8.6	9.2	9.8	10.4	11.0

	DEFOLIATION %																								
Stages	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Vc-Vn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R1	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0
R2	10.4	10.8	11.2	11.6	12.0	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.6	17.2	17.8	18.4	19.0	19.8	20.6	21.4	22.2	23.0
R2.5	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.6	18.2	18.8	19.4	20.0	20.6	21.2	21.8	22.4	23.0	24.0	25.0	26.0	27.0	28.0
R3	16.4	16.8	17.2	17.6	18.0	18.6	19.2	19.8	20.4	21.0	21.6	22.2	22.8	23.4	24.0	24.8	25.6	26.4	27.2	28.0	29.0	30.0	31.0	32.0	33.0
R3.5	21.6	22.2	22.8	23.4	24.0	24.6	25.2	25.8	26.4	27.0	27.8	28.6	29.4	30.2	31.0	32.2	33.4	34.6	35.8	37.0	38.6	40.2	41.8	43.4	45.0
R4	26.8	27.6	28.4	29.2	30.0	30.8	31.6	32.4	33.2	34.0	35.0	36.0	37.0	38.0	39.0	40.4	41.8	43.2	44.6	46.0	48.0	50.0	52.0	54.0	56.0
R4.5	32.2	33.4	34.6	35.8	37.0	38.0	39.0	40.0	41.0	42.0	43.4	44.8	46.2	47.6	49.0	50.4	51.8	53.2	54.6	56.0	57.8	59.6	61.4	63.2	65.0
R5	37.4	38.8	40.2	41.6	43.0	44.4	45.8	47.2	48.6	50.0	51.6	53.2	54.8	56.4	58.0	59.6	61.2	62.8	64.4	66.0	67.8	69.6	71.4	73.2	75.0
R5.5	37.4	38.8	40.2	41.6	43.0	44.4	45.8	47.2	48.6	50.0	51.6	53.2	54.8	56.4	58.0	59.6	61.2	62.8	64.4	66.0	67.8	69.6	71.4	73.2	75.0
R6	27.8	28.6	29.4	30.2	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0	40.0	41.0	42.2	43.4	44.6	45.8	47.0	48.2	49.4	50.6	51.8	53.0
R6.5	11.4	11.8	12.2	12.6	13.0	13.6	14.2	14.8	15.4	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.6	21.2	21.8	22.4	23.0

CUT OFF AND/OR BROKEN OVER CHART

15

PERCENTAGE OF NODES CUT OFF

Stage	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
V1-VN	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.0	3.0	3.0	3.0	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4
R1	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4
R2	0.0	0.2	0.4	0.6	0.8	1.0	1.4	1.8	2.2	2.6	3.0	3.2	3.4	3.6	3.8	4.0	4.4	4.8	5.2	5.6	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4
R2.5	0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2	3.6	4.0	4.4	4.8	5.2	5.6	6.0	6.6	7.2	7.8	8.4	9.0	9.2	9.4	9.6	9.8	10.0	10.4	10.8	11.2	11.6	12.0	12.4	12.8
R3	0.0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.4	12.8	13.2	13.6	14.0	14.6	15.2	15.8	16.4	17.0	17.4	17.8
R3.5	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.2	8.0	8.8	9.6	10.4	11.2	12.0	12.8	13.6	14.4	15.2	16.0	16.6	17.2	17.8	18.4	19.0	19.8	20.6	21.4	22.2	23.0	23.8	24.6

PERCENTAGE OF NODES CUT OFF

Stage	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65*
V1-VN	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.4	7.8	8.2	8.6	9.0	9.4	9.8	10.2	10.6	11.0	11.6	12.2	12.8	13.4	14.0	14.8	15.6	16.4	17.2	18.0
R1	6.6	6.8	7.0	7.4	7.8	8.2	8.6	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.6	12.2	12.8	13.4	14.0	14.6	15.2	15.8	16.4	17.0	17.6	18.2	18.8	19.4	20.0
R2	8.6	8.8	9.0	9.4	9.8	10.2	10.6	11.0	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.6	14.2	14.8	15.4	16.0	16.6	17.2	17.8	18.4	19.0	19.8	20.6	21.4	22.2	23.0
R2.5	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.8	21.6	22.4	23.2	24.0	24.8	25.6	26.4	27.2	28.0	28.8	29.6	30.4	31.2	32.0
R3	18.2	18.6	19.0	19.6	20.2	20.8	21.4	22.0	22.6	23.2	23.8	24.4	25.0	25.6	26.2	26.8	27.4	28.0	28.8	29.6	30.4	31.2	32.0	32.8	33.6	34.4	35.2	36.0	37.0	38.0	39.0	40.0	41.0
R3.5	25.4	26.2	27.0	27.8	28.6	29.4	30.2	31.0	31.8	32.6	33.4	34.2	35.0	35.8	36.6	37.4	38.2	39.0	39.8	40.6	41.4	42.2	43.0	44.2	45.4	46.6	47.8	49.0	49.8	50.6	51.4	52.2	53.0

*If more than 65% of the nodes are cut off or broken over, it is impossible to predict the percentage of loss that may result. Growing conditions following the damage will dictate the extent of recovery that may occur. Therefore the adjustment should be deferred as instructed in the loss instructions.

DETERMINE SOYBEANS STAND REDUCTION LOSS CHART

Original Stand Plants/Acre (1000)	REMAINING PLANTS PER ACRE (1000)																															
	180	175	170	165	160	155	150	145	140	135	130	125	122.5	120	117.5	115	112.5	110	107.5	105	102.5	100	97.5	95	92.5	90	87.5	85	82.5	80		
180	0	0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
175		0	0	0	0	0	0	0	0	1	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
170			0	0	0	0	0	0	0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
165				0	0	0	0	0	0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
160					0	0	0	0	0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
155						0	0	0	0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
150							0	0	0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
145								0	0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
140									0	0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
135										0	1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
130											1	1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
125												1	1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
122.5													1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13	14		
120														1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12	13		
117.5															1	1	2	2	3	3	4	4	5	6	7	8	9	10	11	12		
115																1	1	2	2	3	3	4	4	5	6	7	8	9	10	11		
112.5																	1	1	2	2	3	3	4	4	5	6	7	8	9	10		
110																		1	1	2	2	3	3	4	4	5	6	7	8	9		
107.5																			1	1	2	2	3	3	4	4	5	6	7	8		
105																				1	1	2	2	3	3	4	4	5	6	7		
102.5																					1	1	2	2	3	3	4	4	5	6		
100																						1	1	2	2	3	3	4	4	5		
97.5																							1	1	2	2	3	3	4	4		
95																								1	1	2	2	3	3	4		
92.5																									1	1	2	2	3	3		
90																										1	1	2	2	3		
87.5																											1	1	2	2		
85																												1	1	2		
82.5																													1	1		
80																														1		

16

DETERMINE SOYBEANS STAND REDUCTION LOSS CHART (continued)

17

Original Stand Plants/Acre (1000)	REMAINING PLANTS PER ACRE (1000)																													
	77.5	75	72.5	70	67.5	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25	22.5	20	17.5	15	12.5	10		
180	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
175	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
170	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
165	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
160	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
155	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
150	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
145	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
140	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
135	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
130	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
125	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	40	42	44	47	49	52	54	57	59	62	65		
122.5	15	16	17	18	19	21	22	24	25	27	28	30	31	33	34	36	38	40	42	44	46	49	51	54	56	59	62	65		
120	14	15	16	17	19	20	22	23	25	26	28	29	31	32	34	35	37	39	41	43	46	48	51	53	56	58	61	64		
117.5	14	15	16	17	18	20	21	23	24	26	27	29	30	32	33	35	37	39	41	43	45	48	50	53	55	58	61	64		
115	13	14	15	16	18	19	21	22	24	25	27	28	30	31	33	34	36	38	40	42	45	47	50	52	55	57	60	63		
112.5	13	14	15	16	17	19	20	22	23	25	26	28	29	31	32	34	36	38	40	42	44	47	49	52	54	57	60	63		
110	12	13	14	15	17	18	20	21	23	24	26	27	29	30	32	33	35	37	39	41	44	46	49	51	54	56	59	62		
107.5	11	12	13	14	16	17	19	20	22	23	25	26	28	29	31	32	34	36	38	40	43	45	48	50	53	55	58	62		
105	10	11	12	13	15	16	18	19	21	22	24	25	27	28	30	31	33	35	37	39	42	44	47	49	52	54	58	61		
102.5	9	10	11	12	14	15	17	18	20	21	23	24	26	27	29	30	32	34	36	38	41	43	46	48	51	53	57	60		
100	8	9	10	11	13	14	16	17	19	20	22	23	25	26	28	29	31	33	35	37	40	42	45	47	50	52	56	59		
97.5	7	8	9	10	12	13	15	16	18	19	21	22	24	25	27	28	30	32	34	36	39	41	44	46	49	51	55	58		
95	6	7	8	9	11	12	14	15	17	18	20	21	23	24	26	27	29	31	33	35	38	40	43	45	48	50	54	57		
92.5	5	6	7	8	10	11	13	14	16	17	19	20	22	23	25	26	28	30	32	34	37	39	42	44	47	49	53	56		
90	4	5	6	7	9	10	12	13	15	16	18	19	21	22	24	25	27	29	31	33	36	38	41	43	46	48	52	55		
87.5	4	5	6	7	8	10	11	13	14	16	17	19	20	22	23	25	27	29	31	33	35	38	40	43	45	48	51	55		
85	3	4	5	6	8	9	11	12	14	15	17	18	20	21	23	24	26	28	30	32	35	37	40	42	45	47	51	54		
82.5	2	3	4	5	7	8	10	11	13	14	16	17	19	20	22	23	25	27	29	31	34	36	39	41	44	46	50	53		
80	1	2	3	4	6	7	9	10	12	13	15	16	18	19	21	22	24	26	28	30	33	35	38	40	43	45	49	52		

DETERMINE SOYBEANS STAND REDUCTION LOSS CHART (continued)

Original Stand Plants/Acre (1000)	REMAINING PLANTS PER ACRE (1000)																													
	77.5	75	72.5	70	67.5	65	62.5	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25	22.5	20	17.5	15	12.5	10		
77.5	0	1	2	3	5	6	8	9	11	12	14	15	17	18	20	21	23	25	27	29	32	34	37	39	42	44	48	51		
75		0	1	2	4	5	7	8	10	11	13	14	16	17	19	20	22	24	26	28	31	33	36	38	41	43	47	50		
72.5			0	1	3	4	6	7	9	10	12	13	15	16	18	19	21	23	25	27	29	32	34	37	39	42	46	49		
70				0	2	3	5	6	8	9	11	12	14	15	17	18	20	21	23	25	28	30	33	35	38	41	45	48		
67.5					0	2	3	5	6	8	9	11	12	14	15	17	18	20	22	24	26	29	31	34	37	40	44	47		
65						0	2	3	5	6	8	9	11	12	14	15	17	19	21	23	25	27	30	32	36	39	43	46		
62.5							0	2	3	5	6	8	9	11	12	14	16	18	20	22	24	26	29	31	35	38	42	46		
60								0	2	3	5	7	8	9	11	13	15	16	18	20	23	25	28	30	34	37	41	45		
57.5									0	2	3	5	6	8	9	11	13	15	17	19	21	24	26	29	32	36	40	44		
55										0	2	3	5	6	8	9	11	13	15	17	20	22	25	27	31	34	39	43		
2.5											0	2	3	5	7	9	11	13	15	17	19	21	24	26	30	33	38	42		
50												0	2	4	6	8	10	12	14	16	18	20	23	25	29	32	37	41		
47.5													0	2	4	6	8	10	12	15	17	19	22	25	28	32	36	41		
45														0	2	4	6	8	11	13	16	18	21	24	28	31	36	40		
42.5															0	2	4	7	9	12	15	18	21	24	27	31	35	40		
40																0	3	5	8	11	14	17	20	23	27	30	35	39		

18

DETERMINATE SOYBEANS DEFOLIATION CHART

19

DEFOLIATION %

Stages	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
V9-V12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V13-Vn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R4.5	0.0	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0
R5	0.0	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.4	5.8	6.2	6.6	7.0
R5.5	0.0	0.4	0.8	1.2	1.6	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0	5.4	5.8	6.2	6.6	7.0
R6	0.0	0.2	0.4	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.0

DEFOLIATION %

Stages	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
V9-V12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
V13-Vn	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R2.5	0.6	1.2	1.8	2.4	3.0	3.4	3.8	4.2	4.6	5.0	5.2	5.4	5.6	5.8	6.0	6.4	6.8	7.2	7.6	8.0	8.6	9.2	9.8	10.4	11.0
R3	3.4	3.8	4.2	4.6	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.4	7.8	8.2	8.6	9.0	9.6	10.2	10.8	11.4	12.0
R3.5	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0
R4	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.4	9.8	10.2	10.6	11.0	11.2	11.4	11.6	11.8	12.0
R4.5	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.4	8.8	9.2	9.6	10.0	10.4	10.8	11.2	11.6	12.0	12.2	12.4	12.6	12.8	13.0
R5	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0
R5.5	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.4	9.8	10.2	10.6	11.0	11.4	11.8	12.2	12.6	13.0	13.4	13.8	14.2	14.6	15.0
R6	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.4	9.8	10.2	10.6	11.0

DETERMINATE SOYBEANS DEFOLIATION CHART (continued)

DEFOLIATION %

Stages	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
V9-V12	4.0	4.0	4.0	4.0	4.0	4.2	4.4	4.6	4.8	5.0	5.2	5.4	5.6	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0
V13-Vn	8.2	8.4	8.6	8.8	9.0	9.0	9.0	9.0	9.0	9.0	9.2	9.4	9.6	9.8	10.0	10.2	10.4	10.6	10.8	11.0	11.2	11.4	11.6	11.8	12.0
R1-2	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.2	14.4	14.6	14.8	15.0	15.4	15.8	16.2	16.6	17.0
R2.5	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.4	13.8	14.2	14.6	15.0	15.2	15.4	15.6	15.8	16.0	16.4	16.8	17.2	17.6	18.0
R3	12.2	12.4	12.6	12.8	13.0	13.2	13.4	13.6	13.8	14.0	14.4	14.8	15.2	15.6	16.0	16.2	16.4	16.6	16.8	17.0	17.8	18.2	18.6	19.4	20.0
R3.5	12.2	12.4	12.6	12.8	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.2	17.4	17.6	17.8	18.0	18.6	19.2	19.8	20.4	21.0
R4	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.4	16.8	17.2	17.6	18.0	18.2	18.4	18.6	18.8	19.0	19.6	20.2	20.8	21.4	22.0
R4.5	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0	19.6	20.2	20.8	21.4	22.0	22.4	22.8	23.2	23.6	24.0
R5	15.2	15.4	15.6	15.8	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.6	21.2	21.8	22.4	23.0	23.6	24.2	24.8	25.4	26.0
R5.5	15.2	15.4	15.6	15.8	16.0	16.4	16.8	17.2	17.6	18.0	18.4	18.8	19.2	19.6	20.0	20.6	21.2	21.8	22.4	23.0	23.6	24.2	24.8	25.4	26.0
R6	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.6	12.8	13.0	13.4	13.8	14.2	14.6	15.0	15.4	15.8	16.2	16.6	17.0	17.4	17.8	18.2	18.6	19.0

DEFOLIATION %

Stages	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
V9-V12	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.2	8.4	8.6	8.8	9.0	9.0	9.0	9.0	9.0	9.0	9.2	9.4	9.6	9.8	10.0
V13-Vn	12.4	12.8	13.2	13.6	14.0	14.4	14.8	15.2	15.6	16.0	16.6	17.2	17.8	18.4	19.0	19.6	20.2	20.8	21.4	22.0	22.6	23.2	23.8	24.4	25.0
R1-2	17.6	18.2	18.8	19.4	20.0	21.2	22.4	23.6	24.8	26.0	27.2	28.4	29.6	30.8	32.0	32.8	33.6	34.4	35.2	36.0	36.8	37.6	38.4	39.2	40.0
R2.5	18.8	19.6	20.4	21.2	22.0	23.6	25.2	26.8	28.4	30.0	31.2	32.4	33.6	34.8	36.0	36.8	37.6	38.4	39.2	40.0	41.0	42.0	43.0	44.0	45.0
R3	21.0	22.0	23.0	24.0	25.0	27.0	29.0	31.0	33.0	35.0	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0	50.0
R3.5	22.4	23.8	25.2	26.6	28.0	29.6	31.2	32.8	34.4	36.0	37.0	38.0	39.0	40.0	41.0	42.2	43.4	44.6	45.8	47.0	50.2	53.4	56.6	59.8	63.0
R4	23.6	25.2	26.8	28.4	30.0	31.4	32.8	34.2	35.6	37.0	38.2	39.4	40.6	41.8	43.0	44.2	45.4	46.6	47.8	49.0	54.4	59.8	65.2	70.6	76.0
R4.5	26.0	28.0	30.0	32.0	34.0	35.2	36.4	37.6	38.8	40.0	41.2	42.4	43.6	44.8	46.0	48.4	50.8	53.2	55.6	58.0	62.4	66.8	71.2	75.6	80.0
R5	27.8	29.6	31.4	33.2	35.0	36.8	38.6	40.4	42.2	44.0	45.2	46.4	47.6	48.8	50.0	53.2	56.4	59.6	62.8	66.0	69.6	73.2	76.8	80.4	84.0
R5.5	27.8	29.6	31.4	33.2	35.0	36.8	38.6	40.4	42.2	44.0	45.2	46.4	47.6	48.8	50.0	53.2	56.4	59.6	62.8	66.0	69.6	73.2	76.8	80.4	84.0
R6	20.2	21.4	22.6	23.8	25.0	26.4	27.8	29.2	30.6	32.0	32.8	33.6	34.4	35.2	36.0	38.6	41.2	43.8	46.4	49.0	51.6	54.2	56.8	59.4	62.0

20

EXPENSE REPORT FOR OCT-NOV 2012

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$28.31	Storm Lake, Ia	Wall Lake, Ia and home	51	05-Oct-12	14-Nov-12	work hail claim # 101929	
Carlson, Don D	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$14.00				29-Oct-12	14-Nov-12	food	local restuarant
Carlson, Don D	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$4.60				30-Oct-12	14-Nov-12	food	beef and brew
Carlson, Don D	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				29-Oct-12	13-Nov-12		Super 8 Motels
Carlson, Don D	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.82				27-Nov-12	10-Dec-12	worked hail claims ,stop for lunch	Korach trucked stop did't have Pcard
Carlson, Don D	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				30-Oct-12	13-Nov-12		Super 8 Motels
Carlson, Don D	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.55				29-Oct-12	13-Nov-12	food	FAMILY TABLE OF IDA GROVE
Carlson, Don D	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$45.00				07-Oct-12	14-Nov-12	used for hail calls and running computer.	Mediacom
Carlson, Don D	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$4.56				30-Oct-12	14-Nov-12	food	beef and brew
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$117.66	Storm Lake , Ia	Ogdon , Fraser & Boxholm- home	212	04-Oct-12	14-Nov-12	work hail claim # 114779 5 more fields of pod loss takes lots of time.	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$130.43	Storm Lake, Ia	Ogden, Boxholm- Pilot Mound & home	235	02-Oct-12	14-Nov-12	work hail claim #114779- 7 fields of pod loss type take lots of time!	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$55.50	Storm Lake, Ia (home)	Sac City- Rembrandt- No. Storm Lake	100	01-Oct-12	14-Nov-12	work hail claim losses 3 claims, # 021012-076819-075293	
Carlson, Don D	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$45.00				07-Nov-12	10-Dec-12	high speed wire ued for computer needs	Mediacom
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$94.91	Storm Lake, Ia	Oto, Smthland & Danbury Ia's	171	20-Nov-12	10-Dec-12	Help Galen Sorenson adjuster hail adjust schatter loss.#9733323	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$17.76	Storm Lake, Ia	west of Schaller, Ia.	32	28-Nov-12	10-Dec-12	Meet with Galen Sorensen adjuster to sign 2 high dollar claims rode with Larry Grieme.	
Carlson, Don D	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				30-Oct-12	13-Nov-12		Super 8 Motels

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$101.57	Storm Lake, Ia	So. coon Rapids and Nemaha, Ia's	183	16-Oct-12	14-Nov-12	get new signatures on hail claims# 0211267-103480	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$36.63	Storm , Ia.	West of Galva ,Ia.	66	08-Oct-12	14-Nov-12	work hail claims #105063-109383	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$71.04	Storm Lake, Ia	Rembrandt, Rockwell City,(W) SL	128	12-Oct-12	14-Nov-12	work hail claims #076819-112996-112960-112995-109519-109520	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$36.63	Storm Lake, Ia	Correctionville, Ia	66	13-Oct-12	14-Nov-12	need sign hail claim for H-PP # 109378	
Carlson, Don D	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				29-Oct-12	13-Nov-12		Super 8 Motels
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$16.10	Storm Lake, Ia	Sac City, Lohrville, Ralston, Churdan	29	15-Oct-12	14-Nov-12	work hail claims # 110608 112965-112830-110587 high dollar claims- with Larry Grieme adjuster.	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$18.87	Ida Grove, Ia (motel)	home Storm Lake, Ia	34	31-Oct-12	14-Nov-12	drive home from motel located in Ida Gove, Ia	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$63.27	Storm Lake , Ia	Carroll, Ia	114	17-Oct-12	14-Nov-12	work hail claim with Curt Winequest adjuster on [REDACTED] #123404	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$51.62	Storm Lake, Ia	Sac City, Wall Lake, Odebolt-Galva, Ia's	93	18-Oct-12	14-Nov-12	get hail claim signatures on hail claims # 1110608-103075-100110-107298-107302	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$24.42	Storm Lake, Iowa	Marathon, Iowa	44	19-Oct-12	14-Nov-12	need to get hail claims signature # 100774	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$20.54	Storm Lake, Iowa	Galva, Iowa	37	19-Oct-12	14-Nov-12	hail training on computer for concur sending, Larry Johnson was the computer expert.	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$56.61	Storm Lake, Iowa	Rockwell City, Iowa	102	22-Oct-12	14-Nov-12	grt hail claim signature for # 112973	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$77.15	Storm, Iowa	Cushing- Kiron, Iowa	139	23-Oct-12	14-Nov-12	hail claim signatures #110884-111260	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$16.10	Storm Lake, Iowa	east of Nemaha, Iowa	29	25-Oct-12	14-Nov-12	get hail claim signature for 102860	
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$78.81	Storm Lake, Iowa	Holstien, Ida Grove, Mapleton Iowa	142	29-Oct-12	14-Nov-12	get hail claim signature #102410 and go work hail schatter loss on 120853	

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Carlson, Don D	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$69.38	Ida Grove, Ia (motel)	Mapleton, Soldier,Ute, back Ida Grove, Ia	125	30-Oct-12	14-Nov-12	work schaller loss from hail on claim #120853 (many fields)	
Grieme, Larry L	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				29-Oct-12	21-Nov-12		Super 8 Motels
Grieme, Larry L	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				29-Oct-12	21-Nov-12		Super 8 Motels
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$17.21	ida grove, ia	schaller, ia	31	31-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$66.60	ida grove, ia-mapleton-rodney-	ida grove, ia.	120	30-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$11.68				29-Oct-12	21-Nov-12	food	FAMILY TABLE OF IDA GROVE
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$62.16	schaller, ia-mapleton-rodney-	ida grove, ia	112	29-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$143.75	schaller, ia-washta-gilmore city-bradgate-mallad	schaller, ia	259	12-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				30-Oct-12	21-Nov-12		Super 8 Motels
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$5.76				10-Oct-12	21-Nov-12	food	MCS COUNTRY CAFE
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$66.60	schaller, ia-carroll	schaller, ia	120	01-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$4.27				01-Oct-12	21-Nov-12	food	HARDEE'S #1502539
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$115.44	schaller, ia-albert city - glidden-shurdan	schaller, ia	208	02-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.50				02-Oct-12	22-Nov-12	food	mc donalds
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$91.58	schaller, ia-farhnanville	schaller, ia	165	04-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.92				04-Oct-12	21-Nov-12	food	TONY'S STEAK HOUSE

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.08				08-Oct-12	21-Nov-12	food	KFC OF SPENCER
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$148.74	schaller, ia-albert city-esterville-	schaller, ia	268	08-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$137.64	schaller, ia-loraville-jefferson-churdan-farhnan	schaller, ia	248	09-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$103.23	schaller, ia-carroll-glidden-lanesboro-templeton	schaller, ia.	186	22-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$103.79	schaller, ia-auburn-wiley-farhnanville	schaller, ia	187	10-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.00				26-Oct-12	22-Nov-12	food	sparkys
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$3.52				10-Oct-12	21-Nov-12	food	CASEYS GEN STORE 2518
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$179.27	schaller, ia-templeton-arcadia-dow city-mapleton	schaller, ia	323	11-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.22				11-Oct-12	21-Nov-12	food	MCS COUNTRY CAFE
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.00				15-Oct-12	22-Nov-12	food	ralston cage
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$100.46	schaller, ia-sac city-ralston-churdan-lohraville	schaller, ia	181	15-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				30-Oct-12	21-Nov-12		Super 8 Motels
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.35				22-Oct-12	21-Nov-12	food	CASEYS GEN STORE 2303
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$51.06	schaller, ia-rockwell city-	schaller, ia	92	24-Oct-12	22-Nov-12	hail claims	

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.69				24-Oct-12	21-Nov-12	food	ROCKWELL CITY PIZZA RANCH
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$120.44	schaller, ia-storm lake-carroll-	schaller, ia	217	26-Oct-12	22-Nov-12	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.12				09-Oct-12	21-Nov-12	food	CASEYS GEN STORE 2518
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.22				19-Nov-12	02-Jan-13	food	SUBWAY 00427815
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$11.10	schaller-early, ia	schaller, ia	20	16-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$67.71	schaller-denison-storm lake, ia	schaller, ia	122	19-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$18.87	schaller-storm lake, ia	schaller, ia	34	26-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$88.80	schaller-ruthven, ia	schaller,ia	160	06-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.80				12-Oct-12	21-Nov-12	food	FAMILY TABLE POCAHONTAS
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$52.73	schaller-denison, ia	schaller, ia	95	28-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$195.36	schaller-rudd, ia	schaller, ia	352	15-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$13.34				21-Nov-12	02-Jan-13	paper	BUENA VISTA STATIONERY
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$60.50	schaller-carroll, ia	schaller,ia	109	01-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$75.48	schaller-storm lake-mapleton, ia	schaller, ia	136	02-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$6.89				14-Nov-12	02-Jan-13	paper	WM SUPERCENTER#15 26
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$191.48	schaller-mondamin-mc clelland, ia	schaller, ia	345	08-Nov-12	03-Jan-13	hail claims	
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.82				28-Nov-12	02-Jan-13	food	CRONKS CAFE RESTAURANT A
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.46				06-Nov-12	02-Jan-13	food	AMERICAN CLASSIC CAFE

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.70				08-Nov-12	02-Jan-13	food	KING S CROSSING CAFE
Grieme, Larry L	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$5.71				06-Nov-12	02-Jan-13	paper clips-pens	WM SUPERCENTER#1526
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.78				15-Nov-12	02-Jan-13	food	BOONDOCKS CAFE
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.48				01-Nov-12	02-Jan-13	food	MILL CREEK CAFE
Grieme, Larry L	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.03				16-Nov-12	02-Jan-13	food	CROSSROADS RESTAURANT - L
Grieme, Larry L	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$22.20	schaller-washta, ia	schaller, ia	40	14-Nov-12	03-Jan-13	hail claims	
Sornson, Galen G	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$117.11	elkhorn,ia.	mapleton,ia.	211	30-Oct-12	05-Dec-12	working hail claim 219247	
Sornson, Galen G	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$47.90				01-Nov-12	05-Dec-12	Internet	METC telephone co.
Sornson, Galen G	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$47.90				05-Oct-12	30-Nov-12	hi-speed internet	M.E.T.C. telephone co.
Sornson, Galen G	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$112.11	elkhorn,ia.	Nemaha, Ia	202	04-Oct-12	30-Nov-12	Working Hail claims	
Sornson, Galen G	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$30.53	jefferson,ia.	elk horn,ia.	55	01-Oct-12	30-Nov-12	working haim 216731	
Sornson, Galen G	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$80.48	elkhorn,ia.	dana,ia.	145	01-Oct-12	30-Nov-12	working hail claim 261731	
Sornson, Galen G	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$97.68	elk horn,iaa.	mapleton,ia.	176	29-Oct-12	05-Dec-12	working hail claim 219247	
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$8.40				03-Oct-12	18-Oct-12		CARROLLTON INN
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.47				24-Oct-12	19-Nov-12	CHQ CLAIMS PER MILEAGE	VICTOR'S MARKET
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$109.34	COUNCIL BLUFFS UNDERWOOD CRESCENT AREA ANITA ARE	ANKENY IA	197	09-Oct-12	30-Oct-12	CHQ CLAIMS ██████████ 217442 ██████████ 217442 ██████████ 218156	

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$128.21	ANKENY IA CARROLL IA AREA UNDERWOOD NEOLA AREA	COUNCIL BLUFFS IA	231	08-Oct-12	30-Oct-12	CHQ CLAIMS 119348 █████ █████ CORN UNITS 217441 █████ 217442 █████ █████ 218504 █████	
Thompson, Curtis Lee	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$31.78				07-Oct-12	29-Oct-12	PRINTER INK CARTRIDGES	TARGET 00017673
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.51				04-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE INFO	JEFFERSON PIZZA RANCH
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$104.34	ANKENY IA TREYNOR IA AREA	COUNCIL BLUFFS IA AREA	188	22-Oct-12	20-Nov-12	CHQ CLAIMS █████ 219583 █████ 218758	
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.90				02-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE	THE DANISH INN
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$105.40				02-Oct-12	18-Oct-12		SPRINGHILL SUITES COUNCIL
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$220.34	ANKENY IA SPENCER IA AREA	HAYFIELD AREA WATERLOO IA	397	17-Oct-12	12-Nov-12	CHQ CLAIMS █████ █████ 219482 █████ █████ 219426 █████ █████	
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$79.37	WATERLOO IA	ANKENY IA	143	18-Oct-12	12-Nov-12	CHQ CLAIMS █████	
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.41				17-Oct-12	09-Nov-12	CHQ CLAIMS PER MILEAGE INFO	MCDONALD'S F5326
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$12.65				08-Oct-12	29-Oct-12		SPRINGHILL SUITES COUNCIL
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$105.40				08-Oct-12	29-Oct-12		SPRINGHILL SUITES COUNCIL
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$20.18				08-Oct-12	29-Oct-12	CHQ CLAIMS PER MILEAGE INFO	BLUFFS VILLAGE SQ BUFFET
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$117.11	ANKENY IOWA MARENGO LADORA IA AREA	ANKENY IOWA	211	24-Oct-12	20-Nov-12	CHQ CLAIMS WORK █████ █████ 219496	
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$11.97				18-Oct-12	09-Nov-12	INCURRED 10/17 OVERNIGHT CHQ CLAIMS PER MILEAGE	ISLE FOOD OUTLET
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$69.95				03-Oct-12	18-Oct-12		CARROLLTON INN
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$12.65				02-Oct-12	18-Oct-12		SPRINGHILL SUITES COUNCIL

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$20.18				22-Oct-12	19-Nov-12	CHQ CLAIMS AS PER MILEAGE	BLUFFS VILLAGE SQ BUFFET
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$95.46	COUNCIL BLUFFS IA MCCLELLAND IA AREA	ANKENY IA	172	23-Oct-12	20-Nov-12	CHQ CLAIMS ██████████ 216860 ██████████ 218861	
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$9.48				17-Oct-12	09-Nov-12		THE ISLE CASINO & HOTE
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$79.00				17-Oct-12	09-Nov-12		THE ISLE CASINO & HOTE
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.70				18-Oct-12	12-Nov-12	CHQ CLAIMS DID NOT TAKE CREDIT CARD	LPC BAKERY CAFE
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.08				09-Oct-12	29-Oct-12	CHQ CLAIMS PER MILEAGE INFO	HENRYS DINER
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$69.95				01-Oct-12	18-Oct-12		CARROLLTON INN
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$76.90				22-Oct-12	19-Nov-12		SPRINGHILL SUITES COUNCIL
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$5.23				03-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE	MCDONALD'S F11872
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$20.18				02-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE INFO	BLUFFS VILLAGE SQ BUFFET
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$23.16				01-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE	CHARLIE'S STEAKHOUSE
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.75				01-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE	HEARTLAND DINER
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	(\$68.53)				31-Oct-12	27-Nov-12	CANCEL ONE NIGHT STAY OF TUES OCT 30TH	Super 8 Motels
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$82.70	CARROLL IA TREYNOR SILVER CITY AREA	COUNCIL BLUFFS	149	02-Oct-12	19-Oct-12	CHQ CLAIMS ██████████ 217065 ██████████ 216870 ██████████ 218504	
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$22.48				03-Oct-12	18-Oct-12	CHQ CLAIMS PER MILEAGE	FIESTA CANCUN - CARROLL
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$9.23				22-Oct-12	19-Nov-12		SPRINGHILL SUITES COUNCIL
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$8.40				01-Oct-12	18-Oct-12		CARROLLTON INN

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$168.17	ANKENY IA BRITT HAYFIELD AREA	JEFFERSON AREA CARROLL IA	303	01-Oct-12	19-Oct-12	CHQ CLAIMS 2183371 [REDACTED] [REDACTED] 218931 [REDACTED] [REDACTED] 218934 [REDACTED] [REDACTED] 218934 [REDACTED] [REDACTED] 218932 [REDACTED] [REDACTED] 218933 [REDACTED] [REDACTED]	
Thompson, Curtis Lee	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$24.37				05-Nov-12	27-Nov-12	PRINTER INK	WALGREENS #7454
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.56				30-Oct-12	27-Nov-12		AMERICINN
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$62.99				30-Oct-12	27-Nov-12		AMERICINN
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$111.56	ANKENY, IA	MAPLETON IA AREA IDA GROVE IA	201	29-Oct-12	28-Nov-12	CHQ CLAIMS AL BRUHN 120853	
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$67.16	IDA GROVE IA MAPLETON IA AREA	COUNCIL BLUFFS, IA	121	30-Oct-12	28-Nov-12	CHQ CLAIMS AL BRUHN 120853	
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$122.66	COUNCIL BLUFFS, IA CRESCENT IA AREA	MAGNOLIA, IA AREA ANKENY, IA	221	31-Oct-12	28-Nov-12	CHQ CLAIMS 219790 [REDACTED] [REDACTED] 219482 [REDACTED] 217442 [REDACTED] 217441 [REDACTED]	
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$17.70				29-Oct-12	28-Nov-12	CHQ CLAIMS PER MILEAGE	SPARE TIME
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.40				30-Oct-12	28-Nov-12	LUNCH MEAL ..CHQ CLAIMS PER MILEAGE	BEEF N BREW
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.00				30-Oct-12	28-Nov-12	BREAKFAST MEAL ..CHQ CLAIMS PER MILEAGE	BEEF N BREW
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$107.67	CARROLL IA PATON CHURDAN AREA	JEFFERSON AREA ANKENY IA	194	04-Oct-12	19-Oct-12	CHQ CLAIMS [REDACTED] 119348 [REDACTED] 075534 [REDACTED] 109474	
Thompson, Curtis Lee	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$21.19				30-Nov-12	31-Dec-12	PRINTER INK CARTRIDGE	WALGREENS #7454
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.20				31-Oct-12	27-Nov-12	CHQ CLAIMS PER MILEAGE	MCDONALD'S F11872
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$20.18				30-Oct-12	27-Nov-12	CHQ CLAIMS PER MILEAGE	BLUFFS VILLAGE SQ BUFFET
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$5.30				29-Oct-12	27-Nov-12	CHQ CLAIMS AL BRUHN	MAPLETON VALERO

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Thompson, Curtis Lee	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$50.00				16-Nov-12	01-Jan-13	INTERNET SVCS	CENTURY LINK
Thompson, Curtis Lee	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$50.00				16-Oct-12	01-Jan-13	INTERNET SVCS	CENTURY LINK
Thompson, Curtis Lee	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.70				28-Nov-12	01-Jan-13	NO CREDIT CARDS CHQ CLAIMS PER MILEAGE	THE PITCHER
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$108.78	COUNCIL BLUFFS MISSOURI VALLEY AREA	UNDERWOOD AREA CARROLL IA	196	03-Oct-12	19-Oct-12	CHQ CLAIMS 219037 [REDACTED] [REDACTED] 218428 [REDACTED] [REDACTED] 112973 [REDACTED] 216860 [REDACTED] 216861	
Thompson, Curtis Lee	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$185.37	ANKENY IA BANCROFT WHITEMORE IA AREA	ANKENY IA	334	28-Nov-12	01-Jan-13	CHQ CLAIMS 214460 [REDACTED] [REDACTED] 217289 [REDACTED] [REDACTED]	
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				29-Oct-12	27-Nov-12		Super 8 Motels
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				29-Oct-12	27-Nov-12		Super 8 Motels
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				30-Oct-12	27-Nov-12		Super 8 Motels
Thompson, Curtis Lee	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				30-Oct-12	27-Nov-12		Super 8 Motels
Winquist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$69.95				09-Oct-12	13-Nov-12		CARROLLTON INN
Winquist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.37				11-Oct-12	13-Nov-12	lunch-travel	DENNY'S
Winquist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$106.01	Carrillton Inn-RT	Patton,Scranton, Arcadia,carroll-RT	191	10-Oct-12	14-Nov-12	hail, adjust IA-090-109520,109488,123404,109481	
Winquist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.90				15-Oct-12	13-Nov-12	lunch-travel	AKRON JO'S CAFE
Winquist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$8.40				08-Oct-12	13-Nov-12		CARROLLTON INN
Winquist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$69.95				08-Oct-12	13-Nov-12		CARROLLTON INN
Winquist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$59.39	Akron-home, RT	Hull area-RT	107	05-Oct-12	14-Nov-12	travel to adjust IA-090-116270	
Winquist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$8.40				09-Oct-12	13-Nov-12		CARROLLTON INN

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$137.64	Akron-home-RT	travel to Dakota City, Jackson NE., Hull IA-RT t	248	04-Oct-12	14-Nov-12	adjust NE-090-93934, IA-090-116270-hail	
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$8.40				10-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$176.49	Akron-home	S. Sioux City,Paton, Jefferson,Carroll	318	08-Oct-12	14-Nov-12	hail, adjust NE-090-93934, IA-090-894674	
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.77				04-Oct-12	13-Nov-12	lunch	WM SUPERCENTER#1332
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$69.95				10-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$8.40				11-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$69.95				11-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.42				17-Oct-12	14-Nov-12	lunch- out of pocket, no credit card machine.-cash	Denns Inn
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$68.82	Carrollton Inn-RT	Glidden,Churdan ,Carroll area-RT	124	09-Oct-12	14-Nov-12	hail, adjust IA-090-090109463,109519,103758,109493.	
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$71.04	Carrolton Inn-RT	Wiley, Arcadia, Westside, Carroll area-RT	128	16-Oct-12	14-Nov-12	hail, adjust IA-090-123542, 123401, 104760-start	
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$135.42	Akron-home, RT	Everly-RT	244	03-Oct-12	14-Nov-12	tavel adjust IA-090-856188	
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.03				09-Oct-12	13-Nov-12	lunch	CARROLL PIZZA RANCH
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$17.20				08-Oct-12	13-Nov-12	supper-overnight	CASEYS GEN STORE 3025
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$92.69	Carrollton Inn-RT	travel Paton, Glidden ,Carroll area	167	11-Oct-12	14-Nov-12	hail adjustIA-090-109519,109520,109480	

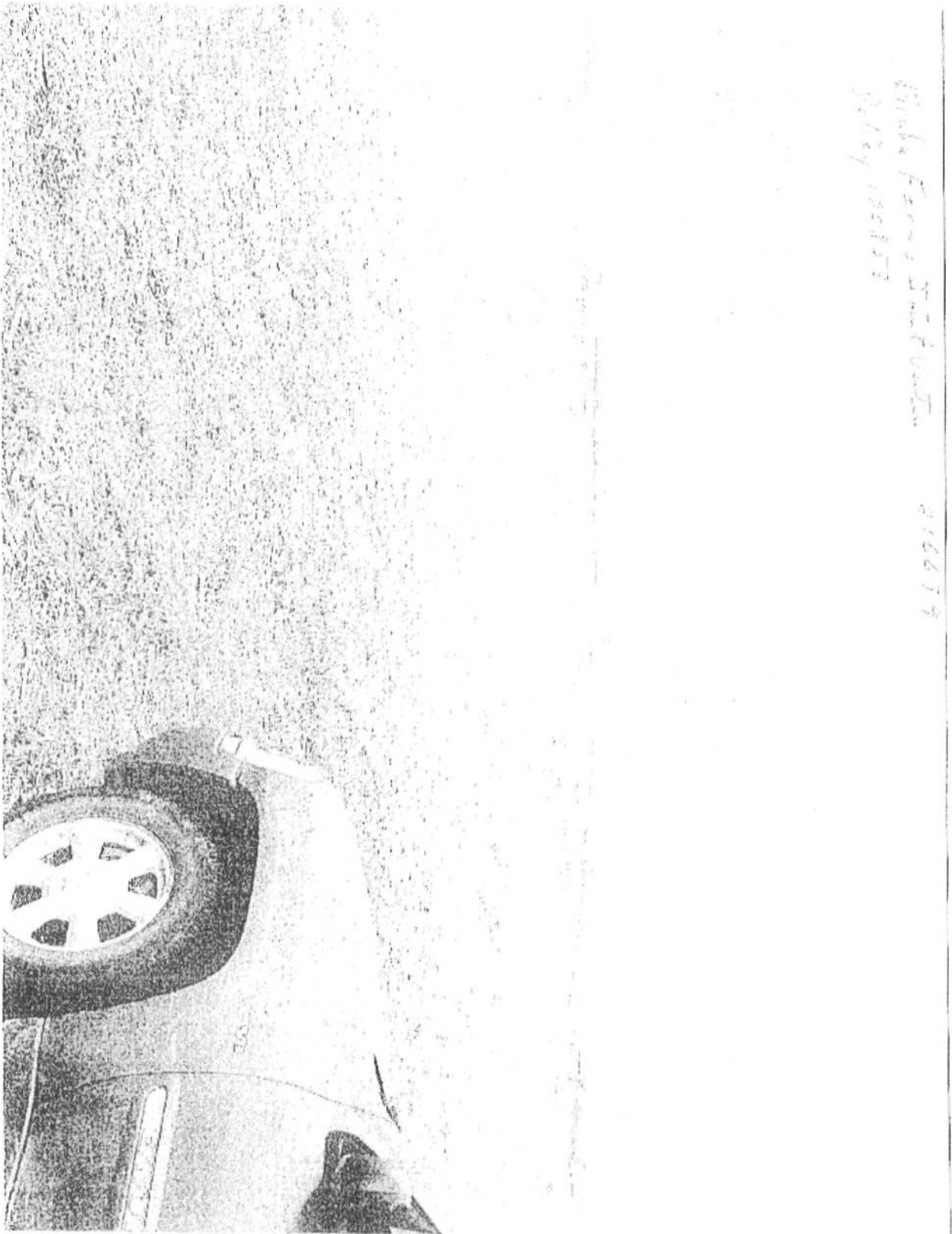
Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$104.34	Carrollton Inn	Adjust in Glidden, Storm Lake, Cleghorn area hom	188	12-Oct-12	14-Nov-12	hail, adjust IA-090-937478, 109463,112982,109488	
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$139.31	Akron-home,RT	travel to Granville, Paullina, Calumet,Marcus, K	251	02-Oct-12	14-Nov-12	Adjust IA-090-767465, 867407, 867405, 723393, 813657-Hail	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.55				02-Oct-12	13-Nov-12	lunch	SHELL OIL 57442284808
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$129.87	Akron-home	Tavel to Ireton, Hornick, Westside, Carroll over	234	15-Oct-12	14-Nov-12	hail, adjust IA-090-131616,083948,109485	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.85				01-Oct-12	13-Nov-12	lunch	SUBWAY 00111047
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$10.08				12-Oct-12	13-Nov-12	lunch	LAKESHORE FAMILY RESTAURA
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$75.48	Ida Grove-Super 8	Maplton,Akron-home	136	31-Oct-12	14-Nov-12	hail, IA-090-120853, assist adjuster #14-483	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.03				09-Oct-12	13-Nov-12	lunch	SUBWAY 00071464
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$20.00				10-Oct-12	13-Nov-12	supper-overnight	PIZZA HUT DENISON
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.44				08-Oct-12	13-Nov-12	lunch	CULVER'S OF CARROL
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.30				03-Oct-12	14-Nov-12	lunch-out of pocket, no credit card machine-cash.	Burgerbarn
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$7.34				05-Oct-12	13-Nov-12	lunch	CASEYS GEN STORE 2687
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$176.49	Akron-home, RT	travel to Sac City, Storm Lake, Cherokee, area-	318	01-Oct-12	14-Nov-12	Adjust, IA-090-123550,867405,867407,-hail	
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$29.97	Akron-home-RT	Akron, Chatsworth,hom e-RT	54	01-Nov-12	10-Jan-13	hail, IA-090-131616.	

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$213.68	Akron-home-RT	travel to Carroll,Jefferson, Willey, Ida Grove, h	385	23-Oct-12	14-Nov-12	hail IA-090-937478,104760,773512,773445.	
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$56.61	Akron-home-RT	Chatsworth, Akron,Sioux City area-RT	102	26-Oct-12	14-Nov-12	hail, IA-090-863237,131616	
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$5.80				24-Oct-12	13-Nov-12	lunch	CASEYS GEN STORE 1365
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.50				26-Oct-12	13-Nov-12	lunch	LALLY S EAST SIDE
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$10.68				29-Oct-12	13-Nov-12	lunch-overnight-	FAMILY TABLE OF IDA GROVE
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$5.35				29-Oct-12	14-Nov-12	snack-overnight, no crdit card machine ,out of pocket.	Spartime
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$4.44				30-Oct-12	14-Nov-12	lunch	Beef/Brew
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.68				31-Oct-12	14-Nov-12	lunch	Carlas Kitchen
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$93.24	Akron-home-RT	travel to Terrill, Larchwood,hom e-RT	168	22-Oct-12	14-Nov-12	hail, adjust IA-090-126615,078394,078381	
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$18.87	Akron-home	Vermillionarea coffee cup-rt	34	15-Nov-12	10-Jan-13	No strong internet to donwload updates	
Winguist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$103.23	Akron-home	Mapleton, Ute, Ida Grove for overnight	186	29-Oct-12	14-Nov-12	hail, IA-090-120853,assist adjuster14-483	
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$23.23				30-Oct-12	09-Jan-13	supper	PIZZA H012266 01000116
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				29-Oct-12	13-Nov-12		Super 8 Motels
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				29-Oct-12	13-Nov-12		Super 8 Motels
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				30-Oct-12	13-Nov-12		Super 8 Motels
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				30-Oct-12	13-Nov-12		Super 8 Motels
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.75				02-Nov-12	09-Jan-13	lunch	PACES RESTAURANT AND BAR

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$6.98				01-Nov-12	09-Jan-13	lunch	AKRON JO'S CAFE
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$63.83	Akron-home-RT	Sioux city area-RT	115	07-Nov-12	10-Jan-13	Adjust IA-090-86323-hail	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.34				07-Nov-12	09-Jan-13	lunch	KFC # D-850005
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Rental - Gas	Travel - Miscellaneous	\$5.74				15-Oct-12	13-Nov-12	lunch-travel	CASEYS GEN STORE 2687
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$44.96	Carrollton Inn-RT	Arcadia,Westsidearea-RT	81	17-Oct-12	14-Nov-12	hail,adjustIA-090-123404,109485	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.10				15-Oct-12	13-Nov-12	supper-travel	SUBWAY 00133504
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$54.39	Akron-home-RT	sioux City,home-RT	98	02-Nov-12	10-Jan-13	hail, IA-090-863237-started	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.22				22-Oct-12	13-Nov-12	lunch	HILLBILLY'S BAR & GRILL
Winqvist, Curtis Elwood	PCARD-INTERNAL-STATIONERY&SUPP	Office Supplies	Office Supplies	\$88.48				11-Oct-12	13-Nov-12	HP 60XL printer ink	OPTIONS INK BUILDI
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$13.24				11-Oct-12	13-Nov-12	supper-travel	HY VEE 1051
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.51				10-Oct-12	13-Nov-12	lunch-travel	JEFFERSON PIZZA RANCH
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$104.34	Carrollton Inn	Westside,Manning,Akron-home	188	18-Oct-12	14-Nov-12	hail,IA-090-109485,113705	
Winqvist, Curtis Elwood	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$42.18	Akron-home-RT	Sioux City area,home-RT	76	19-Oct-12	14-Nov-12	hail,adjust IA-090-863237	
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$22.07				16-Oct-12	13-Nov-12	supper-travel-overnight	CHARLIE'S STEAKHOUSE
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.56				16-Oct-12	13-Nov-12	lunch-overnight	CLIFFS PLACE
Winqvist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.80				17-Oct-12	13-Nov-12		CARROLLTON INN
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$9.94				23-Oct-12	13-Nov-12	lunch	CULVER'S OF CARROL
Winqvist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$5.34				11-Oct-12	13-Nov-12	supper-carryout	HY VEE 1051
Winqvist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$65.00				17-Oct-12	13-Nov-12		CARROLLTON INN

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Winguist, Curtis Elwood	POSTAGE & EXPRESS	Postage	Office Supplies	\$45.00				19-Oct-12	13-Nov-12	1 roll stamps-forerver	USPS 308340077291089 25
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$65.00				16-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.80				16-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$65.00				15-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.80				15-Oct-12	13-Nov-12		CARROLLTON INN
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$19.72				17-Oct-12	13-Nov-12	supper-overnight	CHARLIE'S STEAKHOUSE
Winguist, Curtis Elwood	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.60				18-Oct-12	13-Nov-12	lunch-travling	CASEYS GEN STORE3079
Woodford, Craig H	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				30-Oct-12	18-Dec-12		Super 8 Motels
Woodford, Craig H	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$14.54				30-Oct-12	19-Dec-12	worked claim by mapletonbreakfast-dinner	beef-brew
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$13.32	greenville,ia	greenville,ia	24	15-Oct-12	19-Dec-12	went to spencer to get signature for claim090-985094	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$15.54	greeville,ia	greenville,ia	28	11-Oct-12	19-Dec-12	looked at wind claim by ruthven 090-085094-different field	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$13.32	greenville,ia	greenville,ia	24	09-Oct-12	19-Dec-12	stopped at agents office in spencer,ia for info on claim	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$15.54	greenville,ia	greenville,ia	28	04-Oct-12	19-Dec-12	worked wind claim by ruthven area 090085094	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$122.66	greenville,ia	greenville,ia	221	23-Oct-12	19-Dec-12	worked claim in climbing hill area	
Woodford, Craig H	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$8.00				02-Oct-12	19-Dec-12	ate dinner in charter oak main street out of pocket	charter oak catering
Woodford, Craig H	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				30-Oct-12	18-Dec-12		Super 8 Motels
Woodford, Craig H	PCARD-INTERNAL- TELEPHONE	Telephone/Comm unications	Miscellaneous	\$42.00				15-Nov-12	19-Dec-12	internet for november	webb wireless
Woodford, Craig H	HOTEL EXP-INTRNL PCARD	Lodging	Lodging	\$61.19				29-Oct-12	18-Dec-12		Super 8 Motels
Woodford, Craig H	HOTEL EXP-INTRNL PCARD	Lodging Tax	Lodging	\$7.34				29-Oct-12	18-Dec-12		Super 8 Motels

Employee Full Name	Posted GL Account Name	Expense Type	Trending Category	Transaction Amount	From Location	To Location	Total Miles	Transaction Date	GL Effective Date	Notes	Vendor
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$66.60	greenville ,ia	greenville,ia	120	13-Oct-12	19-Dec-12	went to rembrant for signature saturday morning-090-109377- then to-superior-to finalize another claim in afternoon 090-085090	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$124.88	greenville,ia	greenville,ia	225	02-Oct-12	19-Dec-12	work claim in charter oak,ia policy090-558186-stopped by Nemaha,ia on way an got signature-090-102305	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$41.63	ida grove,iowa	greenville, iowa	75	31-Oct-12	19-Dec-12	drove from ida grove iowa policy 090-120853	
Woodford, Craig H	TRAVEL EXP-INTRNL PCARD	Car Mileage	Mileage cost	\$82.70	greenville,iowa	ida grove,iowa	149	29-Oct-12	19-Dec-12	work on hail claim mapleton area policy 090-120853	
Woodford, Craig H	PCARD-INTERNAL-TELEPHONE	Telephone/Comm unications	Miscellaneous	\$42.00				15-Oct-12	19-Dec-12	internet charge	webb wireless
Woodford, Craig H	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$18.50				29-Oct-12	19-Dec-12	evening meal	sparetime bar grill
Woodford, Craig H	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$15.98				30-Oct-12	18-Dec-12	evening meal	PIZZA H012268 01000108
Woodford, Craig H	PCARD BUS MEALS & ENTERTAINMNT	Employee Travel Meals	Meals	\$10.23				29-Oct-12	18-Dec-12	evening meal	FAMILY TABLE OF IDA GROVE



FFIC 0323

[illegible]

Trial Ex. 205

Burkhart, Larry (RCIS)

From: Burkhart, Larry (RCIS)
Sent: Thursday, December 20, 2012 1:52 PM
To: Eldredge, Chuck L (RCIS); Poverud, Rick D (RCIS)
Subject: Bruhn

Bad news, when I did the estimate in my head I was a zero short and low on the % shortage as well. After going through all the locations in question and calculating the difference between what we paid and the actual production shortfall compared to 10 year APH, the total is \$ 727,000. I am not sure he expects all that but taking all the fields and comparing yield loss to payment with 500 IPA that is the total. I knew 40 K was too good to be true.

Detail Appl ACS Billing Logging/Losses Comm Hail exit

Yr: 2012 Policy: 14-090-120853
 BRUHN FARMS JOINT VENTURE
 14535 WALNUT AVE
 MAPLETON, IA 51034
 Ph(s): (712)882-2735
 Tax ID: XX-XXX9925

Agency: 141252-01-ANOK DIRECT BILL
 TERRY NIELSEN AGENCY
 205 MAIN
 PO BOX 87
 IDA GROVE, IA 51445-0087
 Ph(s): (712)364-2431

Created by: HAASE01

Logging/Losses

Claim #	Status	Claim amt	Adjust amt	Memo amt	Check amt
		517509.00		245976.00	271533.00
213205 01	PROCESSED				
213205 02	WITHDRAWN				
208696 00	PROCESSED	45225.00		6750.00	38475.00
	#00113753 R 6/25/2012				38475.00
213205 00	PROCESSED	54648.00		54648.00	
214489 00	WITHDRAWN				
216639 00	WITHDRAWN				

RURAL COMMUNITY INSURANCE SERVICES

CHR103

6/07/13

More...
 09:26:03

FFIC 0391

EXHIBIT 14

Trial Ex. 208

Losses Logging Remarks Disbursement History Hail exit

Yr: 2012 Policy: 14-090-120853
BRUHN FARMS JOINT VENTURE
14535 WALNUT AVE
MAPLETON, IA 51034
Ph(s): (712)882-2735
Tax ID: XX-XXX9925

Agency: 141252-01-ANOK DIRECT BILL
TERRY NIELSEN AGENCY
205 MAIN
PO BOX 87
IDA GROVE, IA 51445-0087
Ph(s): (712)364-2431

Created by: HAASE01

History for Claim #: 219247 00

4 ADJUSTER RETURNED	14 483 GALEN SORNSON	INACTI	11/28/2012	19:55:12
3 ADJUSTER RECEIVED	14 483 GALEN SORNSON	INACTI	11/14/2012	19:10:03
2 ASSIGNED	14 483 GALEN SORNSON	INACTI	11/04/2012	09:26:46
13 REASSIGNED			11/04/2012	09:26:45
2 ASSIGNED	35 319 RANDY FELDMANN		10/20/2012	08:45:38
13 REASSIGNED			10/20/2012	08:45:38
3 ADJUSTER RECEIVED	14 483 GALEN SORNSON	INACTI	10/03/2012	23:00:04
2 ASSIGNED	14 483 GALEN SORNSON	INACTI	10/03/2012	05:47:19

More...

RURAL COMMUNITY INSURANCE SERVICES

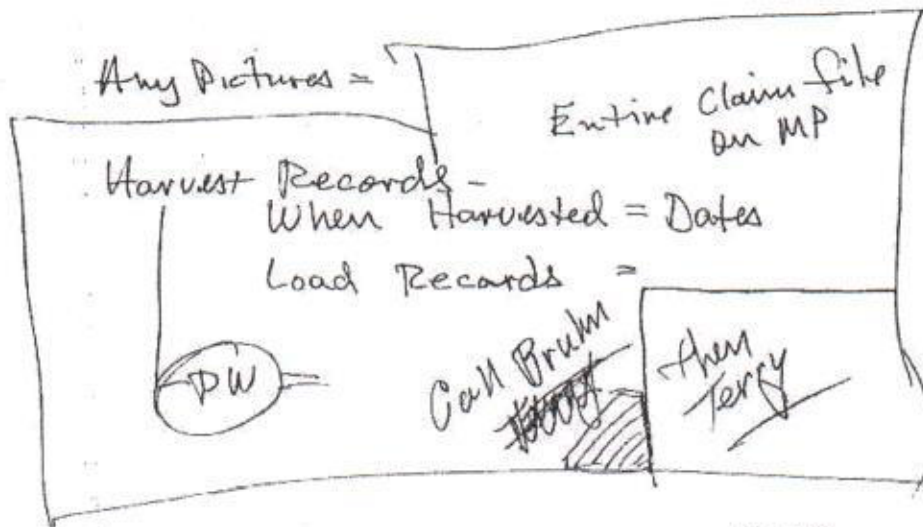
CHR103

6/07/13 09:28:33

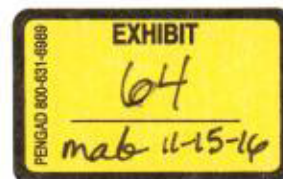
FFIC 0458

Galen - after meeting w/ AL on 30th was cancelled he was told to send papers to Terry - Terry was out so Al said fax to bank -
 Later that week Galen met w/ Terry because he was in the area - Terry said Al wanted more + Galen said NO MORE - Terry said he knew people in Anoka + would call them
 Later Galen called Al to meet + sign + Al said ~~that~~ he would not sign - Galen went to Steve K on or around the 19th of Nov.

Cross check the 18 hand losses with their MP



FFIC 0082



SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>Signature: <i>[Signature]</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Address</p>	
<p>1. Article Addressed to:</p> <p>Bruhn Farms Joint Venture 14535 Walnut Ave Mapleton IA 51034 14-090-120853</p>		<p>B. Received by (Printed Name): <i>Alan Bruhn</i> C. Date of Delivery: <i>1-28-14</i></p>	
<p>2. Article Number (Transfer from service label)</p> <p>7007 1490 0004 4948 1833</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p>	
<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>PS Form 3811, February 2004</p>		<p>Domestic Return Receipt 102595-02-M-1</p>	

U.S. Postal Service™ CERTIFIED MAIL RECEIPT (Domestic Mail Only, No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage \$	MAILED JAN 26 2014 Postmark Here RCS
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent to: <i>Bruhn Farms Joint Venture</i> Street, Apt. No., or PO Box No.: <i>14535 Walnut Ave</i> City, State, ZIP+4: <i>Mapleton IA 51034</i></p>	
<p>PS Form 3800, August 2006 See Reverse for Instructions</p>	

FFIC 0081

Burkhart, Larry (RCIS)

From: Kevorkian, Steven A (RCIS)
Sent: Friday, January 11, 2013 4:37 PM
To: Burkhart, Larry (RCIS)
Subject: FW: Bruhn

From: Winquist, Curtis E (RCIS)
Sent: Friday, January 11, 2013 4:18 PM
To: Kevorkian, Steven A (RCIS)
Subject: Bruhn

Steve

Worked with Don Carlson during adjustment period as my van would not climb hills. We worked with the hired man as it seemed Bruhn was too busy working cattle the day we started. We had spots left in field to work with that to me seemed to be as representative as could be. Hired man was very good to work with as far as I was concerned. Curt.

Curtis
Winquist

FFIC 0095



30931

ProAg Claims Dept 2026 S Hughes Amarillo, TX 79100
 ProAg Claims Dept 4910 E Clinton Way Suite 103 Fresno, CA 93727
 ProAg Claims Dept 2800 Palumbo Dr Suite 200 Lexington, KY 40509
 ProAg Claims Dept 323 N Spokane St Suite 200 Post Falls, ID 83854
 ProAg Claims Dept 18011 College Blvd Suite 210 Lenexa, KS 66219
 ProAg Claims Dept 4600 Westown Pkwy, Bldg 8 Ste 1 West Des Moines, IA 50266

Fax 800-755-7020 Phone 800-366-2707
 Fax 800-417-4890 Phone 800-417-4939
 Fax 888-570-7907 Phone 888-570-7007
 Fax 208-457-8110 Phone 877-457-2767
 Fax 913-307-9945 Phone 866-350-2767
 Fax 866-291-0704 Phone 866-290-1009

Notice of Prevented Planting or Damage or Loss

Insured's Name: Bruhn Farms Joint Venture
 (show name exactly as listed on the policy)

Insured's Address: 14535 Walnut Ave Mapleton, IA 51034

Insured's Phone #: 712-882-2735

Cell Phone #: 712-880-2639

Policy Number: 29-977-743383

Crop Year: 2012

County: PAW FORD

Agency & Agent of Record: Terry Nielsen Agency

Agency Address/Phone #: 205 Main St Ida Grove IA 51445 712-364-2431

Type of Notice: MPC I ☐ Revenue ☐ Field Inspection ☐

Crop	Cause of Damage Date of Damage	Unit	Sec/Twp/Rng:	Acres:	Insured's Intentions:
CORN	EX HEAT 7-2012		28-85-41	146.8	<input checked="" type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
SOYBEAN	EX HEAT 7-2012		7-85-41	149.8	<input checked="" type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time

Immediate Inspection Requested? Yes ☐ No ☒ If yes, why _____

Is there other insurance? No ☐ MPC I ☐ Crop Hall ☐ (Please submit a separate notice for each policy)

If yes, please provide the company and policy number for the other insurance _____

If you have less than 100% share, is the other share insured under an MPC I program? If so, list the person's name, name of insurance company for which they carry MPC I insurance and policy number if known.

My landlord/tenant's name is _____ and carries insurance with _____
 (Please submit a separate notice for each policy)

I am an agent, employee, or contractor affiliated with multiple peril crop insurance (MPCI)? Yes ☐ No ☒

Check one:
☐ This is a notice of Prevented Planting
☐ This is a notice of damage only (appears that production will exceed the guarantee at this time)
☒ This is a notice of probable loss
☐ This is a notice of Replant

Refer to the Basic Provisions and the specific Crop Provisions for more details on notice requirements for acreage prevented from planting and notice requirements for damage or loss. Neither the submission of this Notice nor its receipt shall constitute written consent to destroy, abandon, or replant any crop or to put acreage to another use.

COMMENTS _____

Insured's Signature [Signature]

Date 9-10-12

PLEASE MAKE SURE TO SIGN AND ATTACH A PRIVACY STATEMENT

Updated March 30, 2009
 CCMP-10237





30940

ProAg Claims Dept 2025 S Hughes Amarillo, TX 79109
 ProAg Claims Dept 4910 E Clinton Way Suite 103 Fresno, CA 93727
 ProAg Claims Dept 2800 Palumbo Dr Suite 200 Lexington, KY 40509
 ProAg Claims Dept 323 N Spokane St Suite 200 Post Falls, ID 83854
 ProAg Claims Dept 18011 College Blvd Suite 210 Lenexa, KS 66219
 ProAg Claims Dept 4600 Westown Pkwy, Bldg 6 Ste 1 West Des Moines, IA 50266

Fax 800-755-7026 Phone 800-366-2767
 Fax 800-417-4990 Phone 800-417-4939
 Fax 888-570-7907 Phone 888-570-7067
 Fax 208-457-8110 Phone 877-457-2767
 Fax 913-307-9945 Phone 866-350-2757
 Fax 855-201-0704 Phone 866-290-1009

Notice of Prevented Planting or Damage or Loss

Insured's Name: Bruhn Farms Joint Venture
 (show name exactly as listed on the policy)
 Insured's Address: 14535 Walnut Ave Mapleton, IA 51034
 Insured's Phone #: 712-882-2735 Cell Phone #: 712-880-2639
 Policy Number: 19-907-733382 Crop Year: 2012 County: WOODBURY
 Agency & Agent of Record: Terry Nielsen Agency
 Agency Address/Phone #: 205 Main St Ida Grove IA 51445 712-364-2431
 Type of Notice: MPC ☐ Revenue ☐ Field Inspection ☐

Crop	Cause of Damage Date of Damage	Unit	Sec/Twp/Rng	Acres	Insured's Intentions:
CORN	EX/HEAT ETC 7-20-12	ALL			<input checked="" type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
BEAN	EX/HEAT ETC 7-20-12	ALL			<input checked="" type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time

Immediate Inspection Requested? Yes ☐ No ☒ If yes, why _____
 Is there other insurance? No ☐ MPC ☐ Crop Hail ☐ (Please submit a separate notice for each policy)
 If yes, please provide the company and policy number for the other insurance _____
 If you have less than 100% share, is the other share insured under an MPC program? If so, list the person's name, name of insurance company for which they carry MPC insurance and policy number if known.
 My landlord/tenant's name is _____ and carries insurance with _____
 (Please submit a separate notice for each policy)
 I am an agent, employee, or contractor affiliated with multiple peril crop insurance (MPC)? Yes ☐ No ☒
 Check one:
☐ This is a notice of Prevented Planting
☐ This is a notice of damage only (appears that production will exceed the guarantee at this time)
☒ This is a notice of probable loss
☐ This is a notice of Replant

Refer to the Basic Provisions and the specific Crop Provisions for more details on notice requirements for acreage prevented from planting and notice requirements for damage or loss. Neither the submission of this Notice nor its receipt shall constitute written consent to destroy, abandon, or replant any crop or to put acreage to another use.

COMMENTS

Insured's Signature [Signature] Date 9-10-12

PLEASE MAKE SURE TO SIGN AND ATTACH A PRIVACY STATEMENT

Updated March 30, 2009
 CCMR-10237



30936

ProAg Claims Dept 2025 S Hughes Amarillo, TX 79109
 ProAg Claims Dept 4910 E Clinton Way Suite 103 Fresno, CA 93727
 ProAg Claims Dept 2800 Palumbo Dr Suite 200 Lexington, KY 40509
 ProAg Claims Dept 323 N Spokane St Suite 200 Post Falls, ID 83854
 ProAg Claims Dept 18011 College Blvd Suite 210 Lenexa, KS 66219
 ProAg Claims Dept 4600 Westown Pkwy, Bldg 8 Ste 1 West Des Moines, IA 50266

Fax 800-755-7026 Phone 800-366-2767
 Fax 800-417-4990 Phone 800-417-4939
 Fax 888-570-7007 Phone 888-570-7057
 Fax 208-457-8110 Phone 877-457-2767
 Fax 913-307-9045 Phone 866-360-2767
 Fax 866-291-9704 Phone 866-290-1000

Notice of Prevented Planting or Damage or Loss

Insured's Name: Bruhn Farms Joint Venture
 (show name exactly as listed on the policy)
 Insured's Address: 14535 Walnut Ave Mapleton, IA 51034
 Insured's Phone #: 712-882-2735 Cell Phone #: 712-880-2639
 Policy Number: 19987-733581 Crop Year: 2012 County: MONROE
 Agency & Agent of Record: Terry Nielsen Agency
 Agency Address/Phone #: 205 Main St Ida Grove IA 51445 712-364-2431
 Type of Notice: MPC ☐ Revenue ☐ Field Inspection ☐

Crop	Cause of Damage Date of Damage	Unit	Sec/Twp/Rng:	Acres:	Insured's Intentions:
BEANS	HEAT ETC 7-2012	ALL			<input checked="" type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time
					<input type="checkbox"/> To harvest <input type="checkbox"/> To chop/silage <input type="checkbox"/> Leave for cover <input type="checkbox"/> Destroy <input type="checkbox"/> Plant to another crop <input type="checkbox"/> Pasture <input type="checkbox"/> Hay <input type="checkbox"/> Crop will be direct marketed <input type="checkbox"/> Other (explain) <input type="checkbox"/> Replant <input type="checkbox"/> Unknown at this time

Immediate Inspection Requested? Yes ☐ No ☒ If yes, why _____
 Is there other insurance? No ☐ MPC ☐ Crop Hall ☐ (Please submit a separate notice for each policy)
 If yes, please provide the company and policy number for the other insurance _____
 If you have less than 100% share, is the other share insured under an MPC program? If so, list the person's name, name of insurance company for which they carry MPC insurance and policy number if known.
 My landlord/tenant's name is _____ and carries insurance with _____
 (Please submit a separate notice for each policy)
 I am an agent, employee, or contractor affiliated with multiple peril crop insurance (MPC)? Yes ☐ No ☒
 Check one:
☐ This is a notice of Prevented Planting
☐ This is a notice of damage only (appears that production will exceed the guarantee at this time)
☒ This is a notice of probable loss
☐ This is a notice of Replant

Refer to the Basic Provisions and the specific Crop Provisions for more details on notice requirements for acreage prevented from planting and notice requirements for damage or loss. Neither the submission of this Notice nor its receipt shall constitute written consent to destroy, abandon, or replant any crop or to put acreage to another use.

COMMENTS

Insured's Signature [Signature]Date 9-10-12

PLEASE MAKE SURE TO SIGN AND ATTACH A PRIVACY STATEMENT

Updated March 30, 2009
 CCMP-10237